

SEQUENCE LISTING

<110> Hastings, Gregg A.
Ruben, Steven M.

<120> Meth1 and Meth2 Polynucleotides and Polypeptides

<130> 1488.107000D

<140>

<141>

<160> 126

<170> PatentIn Ver. 2.0

<210> 1
<211> 3261
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (1) .. (2853)

<220>
<221> misc_feature
<222> (3195)
<223> n is any nucleic acid

<220>
<221> misc_feature
<222> (3248)
<223> n is any nucleic acid

<220>
<221> misc_feature
<222> (3255)
<223> n is any nucleic acid

<220>
<221> misc_feature
<222> (3261)

<223> n is any nucleic acid

<400> 1

atg ggg aac gcg gag cgg gct ccg ggg tct cgg agc ttt ggg ccc gta	48
Met Gly Asn Ala Glu Arg Ala Pro Gly Ser Arg Ser Phe Gly Pro Val	
1 5 10 15	
ccc acg ctg ctg ctg ctc gcc gcg gcg cta ctg gcc gtg tcg gac gca	96
Pro Thr Leu Leu Leu Leu Ala Ala Ala Leu Leu Ala Val Ser Asp Ala	
20 25 30	
ctc ggg cgc ccc tcc gag gag gac gag gag cta gtg gtg ccg gag ctg	144
Leu Gly Arg Pro Ser Glu Glu Asp Glu Glu Leu Val Val Pro Glu Leu	
35 40 45	
gag cgc gcc ccg gga cac ggg acc acg cgc ctc cgc ctg cac gcc ttt	192
Glu Arg Ala Pro Gly His Gly Thr Thr Arg Leu Arg Leu His Ala Phe	
50 55 60	
gac cag cag ctg gat ctg gag ctg cgg ccc gac agc agc ttt ttg gcg	240
Asp Gln Gln Leu Asp Leu Glu Leu Arg Pro Asp Ser Ser Phe Leu Ala	
65 70 75 80	
ccc ggc ttc acg ctc cag aac gtg ggg cgc aaa tcc ggg tcc gag acg	288
Pro Gly Phe Thr Leu Gln Asn Val Gly Arg Lys Ser Gly Ser Glu Thr	
85 90 95	
ccg ctt ccg gaa acc gac ctg gcg cac tgc ttc tac tcc ggc acc gtg	336
Pro Leu Pro Glu Thr Asp Leu Ala His Cys Phe Tyr Ser Gly Thr Val	
100 105 110	
aat ggc gat ccc agc tcg gct gcc gcc ctc agc ctc tgc gag ggc gtg	384
Asn Gly Asp Pro Ser Ser Ala Ala Ala Leu Ser Leu Cys Glu Gly Val	
115 120 125	
cgc ggc gcc ttc tac ctg ctg ggg gag gcg tat ttc atc cag ccg ctg	432
Arg Gly Ala Phe Tyr Leu Leu Gly Glu Ala Tyr Phe Ile Gln Pro Leu	
130 135 140	
ccc gcc gcc agc gag cgc ctc gcc acc gcc gcc cca ggg gag aag ccg	480
Pro Ala Ala Ser Glu Arg Leu Ala Thr Ala Ala Pro Gly Glu Lys Pro	
145 150 155 160	
ccg gca cca cta cag ttc cac ctc ctg cgg cgg aat ccg cag ggc gac	528
Pro Ala Pro Leu Gln Phe His Leu Leu Arg Arg Asn Arg Gln Gly Asp	
165 170 175	
gta ggc ggc acg tgc ggg gtc gtg gac gac gag ccc cgg ccg act ggg	576
Val Gly Gly Thr Cys Gly Val Val Asp Asp Glu Pro Arg Pro Thr Gly	
180 185 190	
aaa gcg gag acc gaa gac gag gac gaa ggg act gag ggc gag gac gaa	624
Lys Ala Glu Thr Glu Asp Glu Asp Glu Gly Thr Glu Gly Glu Asp Glu	
195 200 205	
ggg cct cag tgg tcg ccg cag gac ccg gca ctg caa ggc gta gga cag	672
Gly Pro Gln Trp Ser Pro Gln Asp Pro Ala Leu Gln Gly Val Gly Gln	
210 215 220	
ccc aca gga act gga agc ata aga aag aag cga ttt gtg tcc agt cac	720
Pro Thr Gly Thr Gly Ser Ile Arg Lys Lys Arg Phe Val Ser Ser His	
225 230 235 240	

cgc tat gtg gaa acc atg ctt gtg gca gac cag tcg atg gca gaa ttc	768
Arg Tyr Val Glu Thr Met Leu Val Ala Asp Gln Ser Met Ala Glu Phe	
245 250 255	
cac ggc agt ggt cta aag cat tac ctt ctc acg ttg ttt tcg gtg gca	816
His Gly Ser Gly Leu Lys His Tyr Leu Leu Thr Leu Phe Ser Val Ala	
260 265 270	
gcc aga ttg tac aaa cac ccc agc att cgt aat tca gtt agc ctg gtg	864
Ala Arg Leu Tyr Lys His Pro Ser Ile Arg Asn Ser Val Ser Leu Val	
275 280 285	
gtg gtg aag atc ttg gtc atc cac gat gaa cag aag ggg ccg gaa gtg	912
Val Val Lys Ile Leu Val Ile His Asp Glu Gln Lys Gly Pro Glu Val	
290 295 300	
acc tcc aat gct gcc ctc act ctg cgg aac ttt tgc aac tgg cag aag	960
Thr Ser Asn Ala Ala Leu Thr Leu Arg Asn Phe Cys Asn Trp Gln Lys	
305 310 315 320	
cag cac aac cca ccc agt gac cgg gat gca gag cac tat gac aca gca	1008
Gln His Asn Pro Pro Ser Asp Arg Asp Ala Glu His Tyr Asp Thr Ala	
325 330 335	
att ctt ttc acc aga cag gac ttg tgt ggg tcc cag aca tgt gat act	1056
Ile Leu Phe Thr Arg Gln Asp Leu Cys Gly Ser Gln Thr Cys Asp Thr	
340 345 350	
ctt ggg atg gct gat gtt gga act gtg tgt gat ccg agc aga agc tgc	1104
Leu Gly Met Ala Asp Val Gly Thr Val Cys Asp Pro Ser Arg Ser Cys	
355 360 365	
tcc gtc ata gaa gat gat ggt tta caa gct gcc ttc acc aca gcc cat	1152
Ser Val Ile Glu Asp Asp Gly Leu Gln Ala Ala Phe Thr Thr Ala His	
370 375 380	
gaa tta ggc cac gtg ttt aac atg cca cat gat gat gca aag cag tgt	1200
Glu Leu Gly His Val Phe Asn Met Pro His Asp Asp Ala Lys Gln Cys	
385 390 395 400	
gcc agc ctt aat ggt gtg aac cag gat tcc cac atg atg gcg tca atg	1248
Ala Ser Leu Asn Gly Val Asn Gln Asp Ser His Met Met Ala Ser Met	
405 410 415	
ctt tcc aac ctg gac cac agc cag cct tgg tct cct tgc agt gcc tac	1296
Leu Ser Asn Leu Asp His Ser Gln Pro Trp Ser Pro Cys Ser Ala Tyr	
420 425 430	
atg att aca tca ttt ctg gat aat ggt cat ggg gaa tgt ttg atg gac	1344
Met Ile Thr Ser Phe Leu Asp Asn Gly His Gly Glu Cys Leu Met Asp	
435 440 445	
aag cct cag aat ccc ata cag ctc cca ggc gat ctc cct ggc acc tcg	1392
Lys Pro Gln Asn Pro Ile Gln Leu Pro Gly Asp Leu Pro Gly Thr Ser	
450 455 460	
tac gat gcc aac cgg cag tgc cag ttt aca ttt ggg gag gac tcc aaa	1440
Tyr Asp Ala Asn Arg Gln Cys Gln Phe Thr Phe Gly Glu Asp Ser Lys	
465 470 475 480	
cac tgc cct gat gca gcc agc aca tgt agc acc ttg tgg tgt acc ggc	1488
His Cys Pro Asp Ala Ala Ser Thr Cys Ser Thr Leu Trp Cys Thr Gly	

495

acc Thr	tct Ser	ggt Gly	ggg Gly 500	gtg Val	ctg Leu	gtg Val	tgt Cys	caa Gln 505	acc Thr	aaa Lys	cac His	ttc Phe	ccg Pro 510	tgg Trp	gcg Ala	1536
gat Asp	ggc Gly	acc Thr 515	agc Ser	tgt Cys	gga Gly	gaa Glu	ggg Gly 520	aaa Lys	tgg Trp	tgt Cys	atc Ile	aac Asn 525	ggc Gly	aag Lys	tgt Cys	1584
gtg Val	aac Asn 530	aaa Lys	acc Thr	gac Asp	aga Arg	aag Lys 535	cat His	ttt Phe	gat Asp	acg Thr	cct Pro 540	ttt Phe	cat His	gga Gly	agc Ser	1632
tgg Trp 545	gga Gly	atg Met	tgg Trp	ggg Gly	cct Pro 550	tgg Trp	gga Gly	gac Asp	tgt Cys	tcg Ser 555	aga Arg	acg Thr	tgc Cys	ggt Gly	gga Gly 560	1680
gga Gly	gtc Val	cag Gln	tac Tyr 565	acg Thr	atg Met	agg Arg	gaa Glu	tgt Cys 570	gac Asp	aac Asn	cca Pro	gtc Val	cca Pro	aag Lys 575	aat Asn	1728
gga Gly	ggg Gly	aag Lys	tac Tyr 580	tgt Cys	gaa Glu	ggc Gly	aaa Lys 585	cga Arg	gtg Val	cgc Arg	tac Tyr	aga Arg	tcc Ser 590	tgt Cys	aac Asn	1776
ctt Leu	gag Glu	gac Asp 595	tgt Cys	cca Pro	gac Asp	aat Asn	aat Asn 600	gga Gly	aaa Lys	acc Thr	ttt Phe 605	aga Arg	gag Glu	gaa Glu	caa Gln	1824
tgt Cys	gaa Glu 610	gca Ala	cac His	aac Asn	gag Glu	ttt Phe 615	tca Ser	aaa Lys	gct Ala	tcc Ser	ttt Phe 620	ggg Gly	agt Ser	ggg Gly	cct Pro	1872
gcg Ala 625	gtg Val	gaa Glu	tgg Trp	att Ile	ccc Pro 630	aag Lys	tac Tyr	gct Ala	ggc Gly	gtc Val 635	tca Ser	cca Pro	aag Lys	gac Asp	agg Arg 640	1920
tgc Cys	aag Lys	ctc Leu	atc Ile	tgc Cys 645	caa Gln	gcc Ala	aaa Lys	ggc Gly	att Ile 650	ggc Gly	tac Tyr	ttc Phe	ttc Phe	gtt Val 655	ttg Leu	1968
cag Gln	ccc Pro	aag Lys	gtt Val 660	gta Val	gat Asp	ggg Gly	act Thr	cca Pro 665	tgt Cys	agc Ser	cca Pro	gat Asp	tcc Ser 670	acc Thr	tct Ser	2016
gtc Val	tgt Cys	gtg Val 675	caa Gln	gga Gly	cag Gln	tgt Cys	gta Val 680	aaa Lys	gct Ala	ggg Gly	tgt Cys	gat Asp 685	cgc Arg	atc Ile	ata Ile	2064
gac Asp	tcc Ser 690	aaa Lys	aag Lys	aag Lys	ttt Phe	gat Asp 695	aaa Lys	tgt Cys	ggg Gly	gtt Val	tgc Cys 700	ggg Gly	gga Gly	aat Asn	gga Gly	2112
tct Ser 705	act Thr	tgt Cys	aaa Lys	aaa Lys	ata Ile 710	tca Ser	gga Gly	tca Ser	gtt Val	act Thr 715	agt Ser	gca Ala	aaa Lys	cct Pro	gga Gly 720	2160
tat Tyr	cat His	gat Asp	atc Ile 725	atc Ile	aca Thr	att Ile	cca Pro	act Thr 730	gga Gly	gcc Ala	acc Thr	aac Asn	atc Ile	gaa Glu 735	gtg Val	2208

aaa cag cgg aac cag agg gga tcc agg aac aat ggc agc ttt ctt gcc	2256
Lys Gln Arg Asn Gln Arg Gly Ser Arg Asn Asn Gly Ser Phe Leu Ala	
740 745 750	
atc aaa gct gct gat ggc aca tat att ctt aat ggt gac tac act ttg	2304
Ile Lys Ala Ala Asp Gly Thr Tyr Ile Leu Asn Gly Asp Tyr Thr Leu	
755 760 765	
tcc acc tta gag caa gac att atg tac aaa ggt gtt gtc ttg agg tac	2352
Ser Thr Leu Glu Gln Asp Ile Met Tyr Lys Gly Val Val Leu Arg Tyr	
770 775 780	
agc ggc tcc tct gcg gca ttg gaa aga att cgc agc ttt agc cct ctc	2400
Ser Gly Ser Ser Ala Ala Leu Glu Arg Ile Arg Ser Phe Ser Pro Leu	
785 790 795 800	
aaa gag ccc ttg acc atc cag gtt ctt act gtg ggc aat gcc ctt cga	2448
Lys Glu Pro Leu Thr Ile Gln Val Leu Thr Val Gly Asn Ala Leu Arg	
805 810 815	
cct aaa att aaa tac acc tac ttc gta aag aag aag aag gaa tct ttc	2496
Pro Lys Ile Lys Tyr Thr Tyr Phe Val Lys Lys Lys Lys Glu Ser Phe	
820 825 830	
aat gct atc ccc act ttt tca gca tgg gtc att gaa gag tgg ggc gaa	2544
Asn Ala Ile Pro Thr Phe Ser Ala Trp Val Ile Glu Glu Trp Gly Glu	
835 840 845	
tgt tct aag tca tgt gaa ttg ggt tgg cag aga aga ctg gta gaa tgc	2592
Cys Ser Lys Ser Cys Glu Leu Gly Trp Gln Arg Arg Leu Val Glu Cys	
850 855 860	
cga gac att aat gga cag cct gct tcc gag tgt gca aag gaa gtg aag	2640
Arg Asp Ile Asn Gly Gln Pro Ala Ser Glu Cys Ala Lys Glu Val Lys	
865 870 875 880	
cca gcc agc acc aga cct tgt gca gac cat ccc tgc ccc cag tgg cag	2688
Pro Ala Ser Thr Arg Pro Cys Ala Asp His Pro Cys Pro Gln Trp Gln	
885 890 895	
ctg ggg gag tgg tca tca tgt tct aag acc tgt ggg aag ggt tac aaa	2736
Leu Gly Glu Trp Ser Ser Cys Ser Lys Thr Cys Gly Lys Gly Tyr Lys	
900 905 910	
aaa aga agc ttg aag tgt ctg tcc cat gat gga ggg gtg tta tct cat	2784
Lys Arg Ser Leu Lys Cys Leu Ser His Asp Gly Gly Val Leu Ser His	
915 920 925	
gag agc tgt gat cct tta aag aaa cct aaa cat ttc ata gac ttt tgc	2832
Glu Ser Cys Asp Pro Leu Lys Lys Pro Lys His Phe Ile Asp Phe Cys	
930 935 940	
aca atg gca gaa tgc agt taa gtggtttaag tgggtgttagc tttgaggcaa	2883
Thr Met Ala Glu Cys Ser	
945 950	
ggcaaagtga ggaagggctg gtgcagggaa agcaagaagg ctggagggat ccagcgtatc	2943
ttgccagtaa ccagtggagt gtatcagtaa ggtgggatta tgggggtaga tagaaaagga	3003
gttgaatcat cagagtaaac tgccagttgc aaatttgata ggatagtttag tgaggattat	3063

taacctctga gcagtgatat agcataataa anccccgggc attattatta ttatttcttt 3123
 tgttacatct attacaagtt tagaaaaaac aaagcaattg tcaaaaaaaaa aaaaaaaaaa 3183
 aaaaaaaaaa aaagggcggc cgctctagag gatccctcga ggggccaag cttacgcgtg 3243
 catgntgtca tnagtctn 3261

<210> 2
 <211> 950
 <212> PRT
 <213> Homo sapiens

<400> 2
 Met Gly Asn Ala Glu Arg Ala Pro Gly Ser Arg Ser Phe Gly Pro Val
 1 5 10 15
 Pro Thr Leu Leu Leu Leu Ala Ala Ala Leu Leu Ala Val Ser Asp Ala
 20 25 30
 Leu Gly Arg Pro Ser Glu Glu Asp Glu Glu Leu Val Val Pro Glu Leu
 35 40 45
 Glu Arg Ala Pro Gly His Gly Thr Thr Arg Leu Arg Leu His Ala Phe
 50 55 60
 Asp Gln Gln Leu Asp Leu Glu Leu Arg Pro Asp Ser Ser Phe Leu Ala
 65 70 75 80
 Pro Gly Phe Thr Leu Gln Asn Val Gly Arg Lys Ser Gly Ser Glu Thr
 85 90 95
 Pro Leu Pro Glu Thr Asp Leu Ala His Cys Phe Tyr Ser Gly Thr Val
 100 105 110
 Asn Gly Asp Pro Ser Ser Ala Ala Ala Leu Ser Leu Cys Glu Gly Val
 115 120 125
 Arg Gly Ala Phe Tyr Leu Leu Gly Glu Ala Tyr Phe Ile Gln Pro Leu
 130 135 140
 Pro Ala Ala Ser Glu Arg Leu Ala Thr Ala Ala Pro Gly Glu Lys Pro
 145 150 155 160
 Pro Ala Pro Leu Gln Phe His Leu Leu Arg Arg Asn Arg Gln Gly Asp
 165 170 175
 Val Gly Gly Thr Cys Gly Val Val Asp Asp Glu Pro Arg Pro Thr Gly
 180 185 190
 Lys Ala Glu Thr Glu Asp Glu Asp Glu Gly Thr Glu Gly Glu Asp Glu
 195 200 205
 Gly Pro Gln Trp Ser Pro Gln Asp Pro Ala Leu Gln Gly Val Gly Gln
 210 215 220
 Pro Thr Gly Thr Gly Ser Ile Arg Lys Lys Arg Phe Val Ser Ser His
 225 230 235 240

Arg	Tyr	Val	Glu	Thr	Met	Leu	Val	Ala	Asp	Gln	Ser	Met	Ala	Glu	Phe	245	250	255
His	Gly	Ser	Gly	Leu	Lys	His	Tyr	Leu	Leu	Thr	Leu	Phe	Ser	Val	Ala	260	265	270
Ala	Arg	Leu	Tyr	Lys	His	Pro	Ser	Ile	Arg	Asn	Ser	Val	Ser	Leu	Val	275	280	285
Val	Val	Lys	Ile	Leu	Val	Ile	His	Asp	Glu	Gln	Lys	Gly	Pro	Glu	Val	290	295	300
Thr	Ser	Asn	Ala	Ala	Leu	Thr	Leu	Arg	Asn	Phe	Cys	Asn	Trp	Gln	Lys	305	310	315
Gln	His	Asn	Pro	Pro	Ser	Asp	Arg	Asp	Ala	Glu	His	Tyr	Asp	Thr	Ala	325	330	335
Ile	Leu	Phe	Thr	Arg	Gln	Asp	Leu	Cys	Gly	Ser	Gln	Thr	Cys	Asp	Thr	340	345	350
Leu	Gly	Met	Ala	Asp	Val	Gly	Thr	Val	Cys	Asp	Pro	Ser	Arg	Ser	Cys	355	360	365
Ser	Val	Ile	Glu	Asp	Asp	Gly	Leu	Gln	Ala	Ala	Phe	Thr	Thr	Ala	His	370	375	380
Glu	Leu	Gly	His	Val	Phe	Asn	Met	Pro	His	Asp	Asp	Ala	Lys	Gln	Cys	385	390	395
Ala	Ser	Leu	Asn	Gly	Val	Asn	Gln	Asp	Ser	His	Met	Met	Ala	Ser	Met	405	410	415
Leu	Ser	Asn	Leu	Asp	His	Ser	Gln	Pro	Trp	Ser	Pro	Cys	Ser	Ala	Tyr	420	425	430
Met	Ile	Thr	Ser	Phe	Leu	Asp	Asn	Gly	His	Gly	Glu	Cys	Leu	Met	Asp	435	440	445
Lys	Pro	Gln	Asn	Pro	Ile	Gln	Leu	Pro	Gly	Asp	Leu	Pro	Gly	Thr	Ser	450	455	460
Tyr	Asp	Ala	Asn	Arg	Gln	Cys	Gln	Phe	Thr	Phe	Gly	Glu	Asp	Ser	Lys	465	470	475
His	Cys	Pro	Asp	Ala	Ala	Ser	Thr	Cys	Ser	Thr	Leu	Trp	Cys	Thr	Gly	485	490	495
Thr	Ser	Gly	Gly	Val	Leu	Val	Cys	Gln	Thr	Lys	His	Phe	Pro	Trp	Ala	500	505	510
Asp	Gly	Thr	Ser	Cys	Gly	Glu	Gly	Lys	Trp	Cys	Ile	Asn	Gly	Lys	Cys	515	520	525
Val	Asn	Lys	Thr	Asp	Arg	Lys	His	Phe	Asp	Thr	Pro	Phe	His	Gly	Ser	530	535	540
Trp	Gly	Met	Trp	Gly	Pro	Trp	Gly	Asp	Cys	Ser	Arg	Thr	Cys	Gly	Gly	545	550	555
Gly	Val	Gln	Tyr	Thr	Met	Arg	Glu	Cys	Asp	Asn	Pro	Val	Pro	Lys	Asn	565	570	575

Gly Gly Lys Tyr Cys Glu Gly Lys Arg Val Arg Tyr Arg Ser Cys Asn
580 585 590

Leu Glu Asp Cys Pro Asp Asn Asn Gly Lys Thr Phe Arg Glu Glu Gln
595 600 605

Cys Glu Ala His Asn Glu Phe Ser Lys Ala Ser Phe Gly Ser Gly Pro
610 615 620

Ala Val Glu Trp Ile Pro Lys Tyr Ala Gly Val Ser Pro Lys Asp Arg
625 630 635 640

Cys Lys Leu Ile Cys Gln Ala Lys Gly Ile Gly Tyr Phe Phe Val Leu
645 650 655

Gln Pro Lys Val Val Asp Gly Thr Pro Cys Ser Pro Asp Ser Thr Ser
660 665 670

Val Cys Val Gln Gly Gln Cys Val Lys Ala Gly Cys Asp Arg Ile Ile
675 680 685

Asp Ser Lys Lys Lys Phe Asp Lys Cys Gly Val Cys Gly Gly Asn Gly
690 695 700

Ser Thr Cys Lys Lys Ile Ser Gly Ser Val Thr Ser Ala Lys Pro Gly
705 710 715 720

Tyr His Asp Ile Ile Thr Ile Pro Thr Gly Ala Thr Asn Ile Glu Val
725 730 735

Lys Gln Arg Asn Gln Arg Gly Ser Arg Asn Asn Gly Ser Phe Leu Ala
740 745 750

Ile Lys Ala Ala Asp Gly Thr Tyr Ile Leu Asn Gly Asp Tyr Thr Leu
755 760 765

Ser Thr Leu Glu Gln Asp Ile Met Tyr Lys Gly Val Val Leu Arg Tyr
770 775 780

Ser Gly Ser Ser Ala Ala Leu Glu Arg Ile Arg Ser Phe Ser Pro Leu
785 790 795 800

Lys Glu Pro Leu Thr Ile Gln Val Leu Thr Val Gly Asn Ala Leu Arg
805 810 815

Pro Lys Ile Lys Tyr Thr Tyr Phe Val Lys Lys Lys Lys Glu Ser Phe
820 825 830

Asn Ala Ile Pro Thr Phe Ser Ala Trp Val Ile Glu Glu Trp Gly Glu
835 840 845

Cys Ser Lys Ser Cys Glu Leu Gly Trp Gln Arg Arg Leu Val Glu Cys
850 855 860

Arg Asp Ile Asn Gly Gln Pro Ala Ser Glu Cys Ala Lys Glu Val Lys
865 870 875 880

Pro Ala Ser Thr Arg Pro Cys Ala Asp His Pro Cys Pro Gln Trp Gln
885 890 895

Leu Gly Glu Trp Ser Ser Cys Ser Lys Thr Cys Gly Lys Gly Tyr Lys
900 905 910

19950505

Lys Arg Ser Leu Lys Cys Leu Ser His Asp Gly Gly Val Leu Ser His
915 920 925

Glu Ser Cys Asp Pro Leu Lys Lys Pro Lys His Phe Ile Asp Phe Cys
930 935 940

Thr Met Ala Glu Cys Ser
945 950

<210> 3
<211> 3008
<212> DNA
<213> Homo sapiens

<220>
<221> CDS
<222> (1)..(2670)

<220>
<221> Misc feature
<222> (2887)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (2957)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (2970)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (2981)
<223> N is any nucleic acid

<400> 3
atg ttc ccc gcc ccc gcc gcc ccc cgg tgg ctt ccg ttc ctg ctg ctg 48
Met Phe Pro Ala Pro Ala Ala Pro Arg Trp Leu Pro Phe Leu Leu Leu
1 5 10 15

ctg ctg ctg ctg ctg ctg ccg ctg gcc cgc ggc gcc ccg gcc cgg ccc 96
Leu Leu Leu Leu Leu Leu Pro Leu Ala Arg Gly Ala Pro Ala Arg Pro
20 25 30

gca gcc ggg ggg cag gcc tcg gag ctg gtg gtg ccc acg cgg ttg ccc 144
Ala Ala Gly Gly Gln Ala Ser Glu Leu Val Val Pro Thr Arg Leu Pro
35 40 45

ggc agc gcg ggc gag ctc gcg ctc cac ctg tcc gcc ttc ggc aag ggc 192
Gly Ser Ala Gly Glu Leu Ala Leu His Leu Ser Ala Phe Gly Lys Gly
50 55 60

ttc gtg ttg cgc ctg gcg ccc gac gac agc ttc ctg gcg ccc gag ttc 240
Phe Val Leu Arg Leu Ala Pro Asp Asp Ser Phe Leu Ala Pro Glu Phe
65 70 75 80

aag atc gag cgc ctc ggg ggc tcc ggc cgg gcg acc ggg ggc gag cgg 288

Lys	Ile	Glu	Arg	Leu	Gly	Gly	Ser	Gly	Arg	Ala	Thr	Gly	Gly	Glu	Arg		
				85					90					95			
ggg	ctg	cgc	ggc	tgt	ttt	ttt	tcc	ggc	acc	gtg	aat	ggg	gag	ccc	gag	336	
Gly	Leu	Arg	Gly	Cys	Phe	Phe	Ser	Gly	Thr	Val	Asn	Gly	Glu	Pro	Glu		
			100					105					110				
tcg	ctg	gcg	gcg	gtc	agc	ctg	tgc	cgc	ggg	ctg	agc	ggc	tcc	ttc	ctg	384	
Ser	Leu	Ala	Ala	Val	Ser	Leu	Cys	Arg	Gly	Leu	Ser	Gly	Ser	Phe	Leu		
			115				120					125					
ctg	gac	ggc	gag	gag	ttc	acc	atc	cag	ccg	cag	ggc	gcg	ggg	ggc	tcc	432	
Leu	Asp	Gly	Glu	Glu	Phe	Thr	Ile	Gln	Pro	Gln	Gly	Ala	Gly	Gly	Ser		
	130					135					140						
ctg	gct	cag	ccg	cac	cgc	ctg	cag	cgc	tgg	ggg	ccc	gcc	gga	gcc	cgc	480	
Leu	Ala	Gln	Pro	His	Arg	Leu	Gln	Arg	Trp	Gly	Pro	Ala	Gly	Ala	Arg		
	145				150					155					160		
ccc	ctc	ccg	cga	gga	ccc	gag	tgg	gag	gtg	gag	acg	gga	gag	ggg	cag	528	
Pro	Leu	Pro	Arg	Gly	Pro	Glu	Trp	Glu	Val	Glu	Thr	Gly	Glu	Gly	Gln		
				165				170						175			
agg	cag	gag	aga	gga	gac	cac	cag	gag	gac	agc	gag	gag	gag	agc	caa	576	
Arg	Gln	Glu	Arg	Gly	Asp	His	Gln	Glu	Asp	Ser	Glu	Glu	Glu	Ser	Gln		
			180					185					190				
gaa	gag	gag	gca	gaa	ggc	gct	agc	gag	ccg	cca	ccg	ccc	ctg	ggg	gcc	624	
Glu	Glu	Glu	Ala	Glu	Gly	Ala	Ser	Glu	Pro	Pro	Pro	Pro	Leu	Gly	Ala		
			195				200					205					
acg	agt	agg	acc	aag	cgg	ttt	gtg	tct	gag	gcg	cgc	ttc	gtg	gag	acg	672	
Thr	Ser	Arg	Thr	Lys	Arg	Phe	Val	Ser	Glu	Ala	Arg	Phe	Val	Glu	Thr		
	210				215						220						
ctg	ctg	gtg	gcc	gat	gcg	tcc	atg	gct	gcc	ttc	tac	ggg	gcc	gac	ctg	720	
Leu	Leu	Val	Ala	Asp	Ala	Ser	Met	Ala	Ala	Phe	Tyr	Gly	Ala	Asp	Leu		
	225				230					235					240		
cag	aac	cac	atc	ctg	acg	tta	atg	tct	gtg	gca	gcc	cga	atc	tac	aag	768	
Gln	Asn	His	Ile	Leu	Thr	Leu	Met	Ser	Val	Ala	Ala	Arg	Ile	Tyr	Lys		
				245				250						255			
cac	ccc	agc	atc	aag	aat	tcc	atc	aac	ctg	atg	gtg	gta	aaa	gtg	ctg	816	
His	Pro	Ser	Ile	Lys	Asn	Ser	Ile	Asn	Leu	Met	Val	Val	Lys	Val	Leu		
			260					265					270				
atc	gta	gaa	gat	gaa	aaa	tgg	ggc	cca	gag	gtg	tcc	gac	aat	ggg	ggg	864	
Ile	Val	Glu	Asp	Glu	Lys	Trp	Gly	Pro	Glu	Val	Ser	Asp	Asn	Gly	Gly		
			275				280					285					
ctt	aca	ctg	cgt	aac	ttc	tgc	aac	tgg	cag	cgg	cgt	ttc	aac	cag	ccc	912	
Leu	Thr	Leu	Arg	Asn	Phe	Cys	Asn	Trp	Gln	Arg	Arg	Phe	Asn	Gln	Pro		
	290					295					300						
agc	gac	cgc	cac	cca	gag	cac	tac	gac	acg	gcc	atc	ctg	ctc	acc	aga	960	
Ser	Asp	Arg	His	Pro	Glu	His	Tyr	Asp	Thr	Ala	Ile	Leu	Leu	Thr	Arg		
	305				310					315					320		
cag	aac	ttc	tgt	ggg	cag	gag	ggg	ctg	tgt	gac	acc	ctg	ggg	gtg	gca	1008	
Gln	Asn	Phe	Cys	Gly	Gln	Glu	Gly	Leu	Cys	Asp	Thr	Leu	Gly	Val	Ala		
				325					330					335			

gac Asp	atc Ile	ggg Gly	acc Thr 340	att Ile	tgt Cys	gac Asp	ccc Pro	aac Asn 345	aaa Lys	agc Ser	tgc Cys	tcc Ser	gtg Val 350	atc Ile	gag Glu	1056
gat Asp	gag Glu	ggg Gly 355	ctc Leu	cag Gln	gcg Ala	gcc Ala	cac His 360	acc Thr	ctg Leu	gcc Ala	cat His	gaa Glu 365	cta Leu	ggg Gly	cac His	1104
gtc Val	ctc Leu 370	agc Ser	atg Met	ccc Pro	cac His	gac Asp 375	gac Asp	tcc Ser	aag Lys	ccc Pro	tgc Cys 380	aca Thr	cgg Arg	ctc Leu	ttc Phe	1152
ggg Gly 385	ccc Pro	atg Met	ggc Gly	aag Lys	cac His 390	cac His	gtg Val	atg Met	gca Ala	ccg Pro 395	ctg Leu	ttc Phe	gtc Val	cac His	ctg Leu 400	1200
aac Asn	cag Gln	acg Thr	ctg Leu	ccc Pro 405	tgg Trp	tcc Ser	ccc Pro	tgc Cys	agc Ser 410	gcc Ala	atg Met	tat Tyr	ctc Leu	aca Thr 415	gag Glu	1248
ctt Leu	ctg Leu	gac Asp	ggc Gly 420	ggg Gly	cac His	gga Gly	gac Asp	tgt Cys 425	ctc Leu	ctg Leu	gat Asp	gcc Ala	cct Pro 430	ggg Gly	gcg Ala	1296
gcc Ala	ctg Leu	ccc Pro 435	ctc Leu	ccc Pro	aca Thr	ggc Gly	ctc Leu 440	ccg Pro	ggc Gly	cgc Arg	atg Met	gcc Ala 445	ctg Leu	tac Tyr	cag Gln	1344
ctg Leu	gac Asp 450	cag Gln	cag Gln	tgc Cys	agg Arg	cag Gln 455	atc Ile	ttt Phe	ggg Gly	ccg Pro	gat Asp 460	ttc Phe	cgc Arg	cac His	tgc Cys	1392
ccc Pro 465	aac Asn	acc Thr	tct Ser	gct Ala	cag Gln 470	gac Asp	gtc Val	tgc Cys	gcc Ala	cag Gln 475	ctt Leu	tgg Trp	tgc Cys	cac His	act Thr 480	1440
gat Asp	ggg Gly	gct Ala	gag Glu	ccc Pro 485	ctg Leu	tgc Cys	cac His	acg Thr	aag Lys 490	aat Asn	ggc Gly	agc Ser	ctg Leu	ccc Pro 495	tgg Trp	1488
gct Ala	gac Asp	ggc Gly	acg Thr 500	ccg Pro	tgc Cys	ggg Gly	cct Pro	ggg Gly 505	cac His	ctc Leu	tgc Cys	tca Ser	gaa Glu 510	ggc Gly	agc Ser	1536
tgt Cys	cta Leu	cct Pro 515	gag Glu	gag Glu	gaa Glu	gtg Val 520	gag Glu	agg Arg	ccc Pro	aag Lys	ccc Pro	gtg Val 525	gta Val	gat Asp	gga Gly	1584
ggc Gly	tgg Trp 530	gca Ala	ccg Pro	tgg Trp	gga Gly	ccc Pro 535	tgg Trp	gga Gly	gaa Glu	tgt Cys	tct Ser 540	cgg Arg	acc Thr	tgt Cys	gga Gly	1632
gga Gly 545	gga Gly	gta Val	cag Gln	ttt Phe	tca Ser 550	cac His	cgt Arg	gag Glu	tgc Cys	aag Lys 555	gac Asp	ccc Pro	gag Glu	cct Pro	cag Gln 560	1680
aat Asn	gga Gly	gga Gly	aga Arg	tac Tyr 565	tgc Cys	ctg Leu	ggt Gly	cgg Arg	aga Arg 570	gcc Ala	aag Lys	tac Tyr	cag Gln	tca Ser 575	tgc Cys	1728
cac His	acg Thr	gag Glu	gaa Glu	tgc Cys	ccc Pro	cct Pro	gac Asp	ggg Gly	aaa Lys	agc Ser	ttc Phe	agg Arg	gag Glu	cag Gln	cag Gln	1776

					580						585						590						
tgt Cys	gag Glu	aag Lys 595	tat Tyr	aat Asn	gcc Ala	tac Tyr	aat Asn 600	tac Tyr	act Thr	gac Asp	atg Met	gac Asp 605	ggg Gly	aat Asn	ctc Leu	1824							
ctg Leu	cag Gln 610	tgg Trp	gtc Val	ccc Pro	aag Lys	tat Tyr 615	gct Ala	ggg Gly	gtg Val	tcc Ser	ccc Pro 620	cgg Arg	gac Asp	cgc Arg	tgc Cys	1872							
aag Lys 625	ttg Leu	ttc Phe	tgc Cys	cga Arg	gcc Ala 630	cgg Arg	ggg Gly	agg Arg	agc Ser	gag Glu 635	ttc Phe	aaa Lys	gtg Val	ttc Phe	gag Glu 640	1920							
gcc Ala	aag Lys	gtg Val	att Ile	gat Asp 645	ggc Gly	acc Thr	ctg Leu	tgt Cys	ggg Gly 650	cca Pro	gaa Glu	aca Thr	ctg Leu	gcc Ala 655	atc Ile	1968							
tgt Cys	gtc Val	cgt Arg	ggc Gly 660	cag Gln	tgt Cys	gtc Val	aag Lys	gcc Ala 665	ggc Gly	tgt Cys	gac Asp	cat His	gtg Val 670	gtg Val	gac Asp	2016							
tcg Ser	cct Pro	cgg Arg 675	aag Lys	ctg Leu	gac Asp	aaa Lys	tgc Cys 680	ggg Gly	gtg Val	tgt Cys	ggg Gly 685	ggc Gly	aaa Lys	ggc Gly	aac Asn	2064							
tcc Ser	tgc Cys 690	agg Arg	aag Lys	gtc Val	tcc Ser	ggg Gly 695	tcc Ser	ctc Leu	acc Thr	ccc Pro	acc Thr 700	aat Asn	tat Tyr	ggc Gly	tac Tyr	2112							
aat Asn 705	gac Asp	att Ile	gtc Val	acc Thr	atc Ile 710	cca Pro	gct Ala	ggt Gly	gcc Ala	act Thr 715	aat Asn	att Ile	gac Asp	gtg Val	aag Lys 720	2160							
cag Gln	cgg Arg	agc Ser	cac His	ccg Pro 725	ggt Gly	gtg Val	cag Gln	aac Asn	gat Asp 730	ggg Gly	aac Asn	tac Tyr	ctg Leu	gcg Ala 735	ctg Leu	2208							
aag Lys	acg Thr	gct Ala	gat Asp 740	ggg Gly	cag Gln	tac Tyr	ctg Leu	ctc Leu 745	aac Asn	ggc Gly	aac Asn	ctg Leu	gcc Ala 750	atc Ile	tct Ser	2256							
gcc Ala	ata Ile	gag Glu 755	cag Gln	gac Asp	atc Ile	ttg Leu	gtg Val 760	aag Lys	ggg Gly	acc Thr	atc Ile	ctg Leu 765	aag Lys	tac Tyr	agc Ser	2304							
ggc Gly	tcc Ser 770	atc Ile	gcc Ala	acc Thr	ctg Leu	gag Glu 775	cgc Arg	ctg Leu	cag Gln	agc Ser	ttc Phe 780	cgg Arg	ccc Pro	ttg Leu	cca Pro	2352							
gag Glu 785	cct Pro	ctg Leu	aca Thr	gtg Val	cag Gln 790	ctc Leu	ctg Leu	aca Thr	gtc Val	cct Pro 795	ggc Gly	gag Glu	gtc Val	ttc Phe	ccc Pro 800	2400							
cca Pro	aaa Lys	gtc Val	aaa Lys	tac Tyr 805	acc Thr	ttc Phe	ttt Phe	gtt Val	cct Pro 810	aat Asn	gac Asp	gtg Val	gac Asp	ttt Phe 815	agc Ser	2448							
atg Met	cag Gln	agc Ser	agc Ser 820	aaa Lys	gag Glu	aga Arg	gca Ala	acc Thr 825	acc Thr	aac Asn	atc Ile	atc Ile	cag Gln 830	ccg Pro	ctg Leu	2496							

ctc cac gca cag tgg gtg ctg ggg gac tgg tct gag tgc tct agc acc 2544
Leu His Ala Gln Trp Val Leu Gly Asp Trp Ser Glu Cys Ser Ser Thr
835 840 845

tgc ggg gcc gcc tgg cag agg cga act gta gag tgc agg gac ccc tcc 2592
Cys Gly Ala Gly Trp Gln Arg Arg Thr Val Glu Cys Arg Asp Pro Ser
850 855 860

ggc cag gcc tct gcc acc tgc aac aag gct ctg aaa ccc gag gat gcc 2640
Gly Gln Ala Ser Ala Thr Cys Asn Lys Ala Leu Lys Pro Glu Asp Ala
865 870 875 880

aag ccc tgc gaa agc cag ctg tgc ccc ctg tgattcaggg gggcaggggc 2690
Lys Pro Cys Glu Ser Gln Leu Cys Pro Leu
885 890

cagtcttgtg ctcttgga cagcgtactg aggtgcagac aaggtctcca ctgtggtgac 2750

tgggtccctt ggccatatca aggcagcacg gccacccag gcctccatt gccgcaaccc 2810

ctccagtact gcacaaattc ctaaggggga agagaaaagg tatggggcgg caaacctat 2870

catcaactgt ccawtigna ggaacttgct cggttcaat taaaggcata agttaaagta 2930

aattcattat gatcaacaga cctcacntca tctgttgcan gatacaacta ntataaaaaa 2990

aaaaaaaaa aaaaaaaaa 3008

<210> 4

<211> 890

<212> PRT

<213> Homo sapiens

<400> 4

Met Phe Pro Ala Pro Ala Ala Pro Arg Trp Leu Pro Phe Leu Leu Leu
1 5 10 15

Leu Leu Leu Leu Leu Leu Pro Leu Ala Arg Gly Ala Pro Ala Arg Pro
20 25 30

Ala Ala Gly Gly Gln Ala Ser Glu Leu Val Val Pro Thr Arg Leu Pro
35 40 45

Gly Ser Ala Gly Glu Leu Ala Leu His Leu Ser Ala Phe Gly Lys Gly
50 55 60

Phe Val Leu Arg Leu Ala Pro Asp Asp Ser Phe Leu Ala Pro Glu Phe
65 70 75 80

Lys Ile Glu Arg Leu Gly Gly Ser Gly Arg Ala Thr Gly Gly Glu Arg
85 90 95

Gly Leu Arg Gly Cys Phe Phe Ser Gly Thr Val Asn Gly Glu Pro Glu
100 105 110

Ser Leu Ala Ala Val Ser Leu Cys Arg Gly Leu Ser Gly Ser Phe Leu
115 120 125

Leu Asp Gly Glu Glu Phe Thr Ile Gln Pro Gln Gly Ala Gly Gly Ser
130 135 140

Leu Ala Gln Pro His Arg Leu Gln Arg Trp Gly Pro Ala Gly Ala Arg
 145 150 155 160
 Pro Leu Pro Arg Gly Pro Glu Trp Glu Val Glu Thr Gly Glu Gly Gln
 165 170 175
 Arg Gln Glu Arg Gly Asp His Gln Glu Asp Ser Glu Glu Glu Ser Gln
 180 185 190
 Glu Glu Glu Ala Glu Gly Ala Ser Glu Pro Pro Pro Pro Leu Gly Ala
 195 200 205
 Thr Ser Arg Thr Lys Arg Phe Val Ser Glu Ala Arg Phe Val Glu Thr
 210 215 220
 Leu Leu Val Ala Asp Ala Ser Met Ala Ala Phe Tyr Gly Ala Asp Leu
 225 230 235 240
 Gln Asn His Ile Leu Thr Leu Met Ser Val Ala Ala Arg Ile Tyr Lys
 245 250 255
 His Pro Ser Ile Lys Asn Ser Ile Asn Leu Met Val Val Lys Val Leu
 260 265 270
 Ile Val Glu Asp Glu Lys Trp Gly Pro Glu Val Ser Asp Asn Gly Gly
 275 280 285
 Leu Thr Leu Arg Asn Phe Cys Asn Trp Gln Arg Arg Phe Asn Gln Pro
 290 295 300
 Ser Asp Arg His Pro Glu His Tyr Asp Thr Ala Ile Leu Leu Thr Arg
 305 310 315 320
 Gln Asn Phe Cys Gly Gln Glu Gly Leu Cys Asp Thr Leu Gly Val Ala
 325 330 335
 Asp Ile Gly Thr Ile Cys Asp Pro Asn Lys Ser Cys Ser Val Ile Glu
 340 345 350
 Asp Glu Gly Leu Gln Ala Ala His Thr Leu Ala His Glu Leu Gly His
 355 360 365
 Val Leu Ser Met Pro His Asp Asp Ser Lys Pro Cys Thr Arg Leu Phe
 370 375 380
 Gly Pro Met Gly Lys His His Val Met Ala Pro Leu Phe Val His Leu
 385 390 395 400
 Asn Gln Thr Leu Pro Trp Ser Pro Cys Ser Ala Met Tyr Leu Thr Glu
 405 410 415
 Leu Leu Asp Gly Gly His Gly Asp Cys Leu Leu Asp Ala Pro Gly Ala
 420 425 430
 Ala Leu Pro Leu Pro Thr Gly Leu Pro Gly Arg Met Ala Leu Tyr Gln
 435 440 445
 Leu Asp Gln Gln Cys Arg Gln Ile Phe Gly Pro Asp Phe Arg His Cys
 450 455 460
 Pro Asn Thr Ser Ala Gln Asp Val Cys Ala Gln Leu Trp Cys His Thr
 465 470 475 480

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

Asp	Gly	Ala	Glu	Pro	Leu	Cys	His	Thr	Lys	Asn	Gly	Ser	Leu	Pro	Trp	485	490	495
Ala	Asp	Gly	Thr	Pro	Cys	Gly	Pro	Gly	His	Leu	Cys	Ser	Glu	Gly	Ser	500	505	510
Cys	Leu	Pro	Glu	Glu	Glu	Val	Glu	Arg	Pro	Lys	Pro	Val	Val	Asp	Gly	515	520	525
Gly	Trp	Ala	Pro	Trp	Gly	Pro	Trp	Gly	Glu	Cys	Ser	Arg	Thr	Cys	Gly	530	535	540
Gly	Gly	Val	Gln	Phe	Ser	His	Arg	Glu	Cys	Lys	Asp	Pro	Glu	Pro	Gln	545	550	555
Asn	Gly	Gly	Arg	Tyr	Cys	Leu	Gly	Arg	Arg	Ala	Lys	Tyr	Gln	Ser	Cys	565	570	575
His	Thr	Glu	Glu	Cys	Pro	Pro	Asp	Gly	Lys	Ser	Phe	Arg	Glu	Gln	Gln	580	585	590
Cys	Glu	Lys	Tyr	Asn	Ala	Tyr	Asn	Tyr	Thr	Asp	Met	Asp	Gly	Asn	Leu	595	600	605
Leu	Gln	Trp	Val	Pro	Lys	Tyr	Ala	Gly	Val	Ser	Pro	Arg	Asp	Arg	Cys	610	615	620
Lys	Leu	Phe	Cys	Arg	Ala	Arg	Gly	Arg	Ser	Glu	Phe	Lys	Val	Phe	Glu	625	630	635
Ala	Lys	Val	Ile	Asp	Gly	Thr	Leu	Cys	Gly	Pro	Glu	Thr	Leu	Ala	Ile	645	650	655
Cys	Val	Arg	Gly	Gln	Cys	Val	Lys	Ala	Gly	Cys	Asp	His	Val	Val	Asp	660	665	670
Ser	Pro	Arg	Lys	Leu	Asp	Lys	Cys	Gly	Val	Cys	Gly	Gly	Lys	Gly	Asn	675	680	685
Ser	Cys	Arg	Lys	Val	Ser	Gly	Ser	Leu	Thr	Pro	Thr	Asn	Tyr	Gly	Tyr	690	695	700
Asn	Asp	Ile	Val	Thr	Ile	Pro	Ala	Gly	Ala	Thr	Asn	Ile	Asp	Val	Lys	705	710	715
Gln	Arg	Ser	His	Pro	Gly	Val	Gln	Asn	Asp	Gly	Asn	Tyr	Leu	Ala	Leu	725	730	735
Lys	Thr	Ala	Asp	Gly	Gln	Tyr	Leu	Leu	Asn	Gly	Asn	Leu	Ala	Ile	Ser	740	745	750
Ala	Ile	Glu	Gln	Asp	Ile	Leu	Val	Lys	Gly	Thr	Ile	Leu	Lys	Tyr	Ser	755	760	765
Gly	Ser	Ile	Ala	Thr	Leu	Glu	Arg	Leu	Gln	Ser	Phe	Arg	Pro	Leu	Pro	770	775	780
Glu	Pro	Leu	Thr	Val	Gln	Leu	Leu	Thr	Val	Pro	Gly	Glu	Val	Phe	Pro	785	790	795
Pro	Lys	Val	Lys	Tyr	Thr	Phe	Phe	Val	Pro	Asn	Asp	Val	Asp	Phe	Ser	805	810	815

Met Gln Ser Ser Lys Glu Arg Ala Thr Thr Asn Ile Ile Gln Pro Leu
820 825 830

Leu His Ala Gln Trp Val Leu Gly Asp Trp Ser Glu Cys Ser Ser Thr
835 840 845

Cys Gly Ala Gly Trp Gln Arg Arg Thr Val Glu Cys Arg Asp Pro Ser
850 855 860

Gly Gln Ala Ser Ala Thr Cys Asn Lys Ala Leu Lys Pro Glu Asp Ala
865 870 875 880

Lys Pro Cys Glu Ser Gln Leu Cys Pro Leu
885 890

<210> 5
<211> 1203
<212> PRT
<213> Bovine

<400> 5
Met Asp Pro Pro Ala Gly Ala Ala Gly Arg Leu Leu Cys Pro Ala Leu
1 5 10 15

Leu Leu Leu Leu Leu Leu Pro Leu Pro Ala Asp Ala Arg Leu Ala Ala
20 25 30

Ala Ala Ala Asp Pro Pro Gly Gly Pro Gln Gly His Gly Ala Glu Arg
35 40 45

Ile Leu Ala Val Pro Val Arg Thr Asp Ala Gln Gly Arg Leu Val Ser
50 55 60

His Val Val Ser Ala Ala Thr Ala Pro Ala Gly Val Arg Thr Arg Arg
65 70 75 80

Ala Ala Pro Ala Gln Ile Pro Gly Leu Ser Gly Gly Ser Glu Glu Asp
85 90 95

Pro Gly Gly Arg Leu Phe Tyr Asn Val Thr Val Phe Gly Arg Asp Leu
100 105 110

His Leu Arg Leu Arg Pro Asn Ala Arg Leu Val Ala Pro Gly Ala Thr
115 120 125

Val Glu Trp Gln Gly Glu Ser Gly Ala Thr Arg Val Glu Pro Leu Leu
130 135 140

Gly Thr Cys Leu Tyr Val Gly Asp Val Ala Gly Leu Ala Glu Ser Ser
145 150 155 160

Ser Val Ala Leu Ser Asn Cys Asp Gly Leu Ala Gly Leu Ile Arg Met
165 170 175

Glu Glu Glu Glu Phe Phe Ile Glu Pro Leu Glu Lys Gly Leu Ala Ala
180 185 190

Lys Glu Ala Glu Gln Gly Arg Val His Val Val Tyr His Arg Pro Thr
195 200 205

Thr	Ser	Arg	Pro	Pro	Pro	Leu	Gly	Gln	Ala	Leu	Asp	Thr	Gly	Ile	Ser
Ala	Asp	Ser	Leu	Asp	Ser	Leu	Ser	Arg	Ala	Leu	Gly	Val	Leu	Glu	Glu
Arg	Val	Asn	Ser	Ser	Arg	Arg	Arg	Met	Arg	Arg	His	Ala	Ala	Asp	Asp
Asp	Tyr	Asn	Ile	Glu	Val	Leu	Leu	Gly	Val	Asp	Asp	Ser	Val	Val	Gln
Phe	His	Gly	Thr	Glu	His	Val	Gln	Lys	Tyr	Leu	Leu	Thr	Leu	Met	Asn
Ile	Val	Asn	Glu	Ile	Tyr	His	Asp	Glu	Ser	Leu	Gly	Ala	His	Ile	Asn
Val	Val	Leu	Val	Arg	Ile	Ile	Leu	Leu	Ser	Tyr	Gly	Lys	Ser	Met	Ser
Leu	Ile	Glu	Ile	Gly	Asn	Pro	Ser	Gln	Ser	Leu	Glu	Asn	Val	Cys	Arg
Trp	Ala	Tyr	Leu	Gln	Gln	Lys	Pro	Asp	Thr	Asp	His	Asp	Glu	Tyr	His
Asp	His	Ala	Ile	Phe	Leu	Thr	Arg	Gln	Asp	Phe	Gly	Pro	Ser	Gly	Met
Gln	Gly	Tyr	Ala	Pro	Val	Thr	Gly	Met	Cys	His	Pro	Val	Arg	Ser	Cys
Thr	Leu	Asn	His	Glu	Asp	Gly	Phe	Ser	Ser	Ala	Phe	Val	Val	Ala	His
Glu	Thr	Gly	His	Val	Leu	Gly	Met	Glu	His	Asp	Gly	Gln	Gly	Asn	Arg
Cys	Gly	Asp	Glu	Val	Arg	Leu	Gly	Ser	Ile	Met	Ala	Pro	Leu	Val	Gln
Ala	Ala	Phe	His	Arg	Phe	His	Trp	Ser	Arg	Cys	Ser	Gln	Gln	Glu	Leu
Ser	Arg	Tyr	Leu	His	Ser	Tyr	Asp	Cys	Leu	Arg	Asp	Asp	Pro	Phe	Thr
His	Asp	Trp	Pro	Ala	Leu	Pro	Gln	Leu	Pro	Gly	Leu	His	Tyr	Ser	Met
Asn	Glu	Gln	Cys	Arg	Phe	Asp	Phe	Gly	Leu	Gly	Tyr	Met	Met	Cys	Thr
Ala	Phe	Arg	Thr	Phe	Asp	Pro	Cys	Lys	Gln	Leu	Trp	Cys	Ser	His	Pro
Asp	Asn	Pro	Tyr	Phe	Cys	Lys	Thr	Lys	Lys	Gly	Pro	Pro	Leu	Asp	Gly
Thr	Met	Cys	Ala	Pro	Gly	Lys	His	Cys	Phe	Lys	Gly	His	Cys	Ile	Trp

Leu Thr Pro Asp Ile Leu Lys Arg Asp Gly Asn Trp Gly Ala Trp Ser
 545 550 555 560
 Pro Phe Gly Ser Cys Ser Arg Thr Cys Gly Thr Gly Val Lys Phe Arg
 565 570 575
 Thr Arg Gln Cys Asp Asn Pro His Pro Ala Asn Gly Gly Arg Thr Cys
 580 585 590
 Ser Gly Leu Ala Tyr Asp Phe Gln Leu Cys Asn Ser Gln Asp Cys Pro
 595 600 605
 Asp Ala Leu Ala Asp Phe Arg Glu Glu Gln Cys Arg Gln Trp Asp Leu
 610 615 620
 Tyr Phe Glu His Gly Asp Ala Gln His His Trp Leu Pro His Glu His
 625 630 635 640
 Arg Asp Ala Lys Glu Arg Cys His Leu Tyr Cys Glu Ser Lys Glu Thr
 645 650 655
 Gly Glu Val Val Ser Met Lys Arg Met Val His Asp Gly Thr Arg Cys
 660 665 670
 Ser Tyr Lys Asp Ala Phe Ser Leu Cys Val Arg Gly Asp Cys Arg Lys
 675 680 685
 Val Gly Cys Asp Gly Val Ile Gly Ser Ser Lys Gln Glu Asp Lys Cys
 690 695 700
 Gly Val Cys Gly Gly Asp Asn Ser His Cys Lys Val Val Lys Gly Thr
 705 710 715 720
 Phe Ser Arg Ser Pro Lys Lys Leu Gly Tyr Ile Lys Met Phe Glu Ile
 725 730 735
 Pro Ala Gly Ala Arg His Leu Leu Ile Gln Glu Ala Asp Thr Thr Ser
 740 745 750
 His His Leu Ala Val Lys Asn Leu Glu Thr Gly Lys Phe Ile Leu Asn
 755 760 765
 Glu Glu Asn Asp Val Asp Pro Asn Ser Lys Thr Phe Ile Ala Met Gly
 770 775 780
 Val Glu Trp Glu Tyr Arg Asp Glu Asp Gly Arg Glu Thr Leu Gln Thr
 785 790 795 800
 Met Gly Pro Leu His Gly Thr Ile Thr Val Leu Val Ile Pro Glu Gly
 805 810 815
 Asp Ala Arg Ile Ser Leu Thr Tyr Lys Tyr Met Ile His Glu Asp Ser
 820 825 830
 Leu Asn Val Asp Asp Asn Asn Val Leu Glu Asp Asp Ser Val Gly Tyr
 835 840 845
 Glu Trp Ala Leu Lys Lys Trp Ser Pro Cys Ser Lys Pro Cys Gly Gly
 850 855 860
 Gly Ser Gln Phe Thr Lys Tyr Gly Cys Arg Arg Arg Leu Asp His Lys
 865 870 875 880

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

Met Val His Arg Gly Phe Cys Asp Ser Val Ser Lys Pro Lys Ala Ile
885 890 895

Arg Arg Thr Cys Asn Pro Gln Glu Cys Ser Gln Pro Val Trp Val Thr
900 905 910

Gly Glu Trp Glu Pro Cys Ser Arg Ser Cys Gly Arg Thr Gly Met Gln
915 920 925

Val Arg Ser Val Arg Cys Val Gln Pro Leu His Asn Asn Thr Thr Arg
930 935 940

Ser Val His Thr Lys His Cys Asn Asp Ala Arg Pro Glu Gly Arg Arg
945 950 955 960

Ala Cys Asn Arg Glu Leu Cys Pro Gly Arg Trp Arg Ala Gly Ser Trp
965 970 975

Ser Gln Cys Ser Val Thr Cys Gly Asn Gly Thr Gln Glu Arg Pro Val
980 985 990

Leu Cys Arg Thr Ala Asp Asp Ser Phe Gly Val Cys Arg Glu Glu Arg
995 1000 1005

Pro Glu Thr Ala Arg Ile Cys Arg Leu Gly Pro Cys Pro Arg Asn Thr
1010 1015 1020

Ser Asp Pro Ser Lys Lys Ser Tyr Val Val Gln Trp Leu Ser Arg Pro
1025 1030 1035 1040

Asp Pro Asn Ser Pro Val Gln Glu Thr Ser Ser Lys Gly Arg Cys Gln
1045 1050 1055

Gly Asp Lys Ser Val Phe Cys Arg Met Glu Val Leu Ser Arg Tyr Cys
1060 1065 1070

Ser Ile Pro Gly Tyr Asn Lys Leu Cys Cys Lys Ser Cys Asn Pro His
1075 1080 1085

Asp Asn Leu Thr Asp Val Asp Asp Arg Ala Glu Pro Pro Ser Gly Lys
1090 1095 1100

His Asn Asp Ile Glu Glu Leu Met Pro Thr Leu Ser Val Pro Thr Leu
1105 1110 1115 1120

Val Met Glu Val Gln Pro Pro Pro Gly Ile Pro Leu Glu Val Pro Leu
1125 1130 1135

Asn Thr Ser Ser Thr Asn Ala Thr Glu Asp His Pro Glu Thr Asn Ala
1140 1145 1150

Val Asp Val Pro Tyr Lys Ile Pro Gly Leu Glu Asp Glu Val Gln Pro
1155 1160 1165

Pro Asn Leu Ile Pro Arg Arg Pro Ser Pro Tyr Glu Lys Thr Arg Asn
1170 1175 1180

Gln Arg Ile Gln Glu Leu Ile Asp Glu Met Arg Lys Lys Glu Met Leu
1185 1190 1195 1200

Gly Lys Phe

<210> 6
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 6
 Asp Asp Gly Trp Ser Pro Trp Ser Glu Trp Thr Ser Cys Ser Thr Ser
 1 5 10 15
 Cys Gly Asn Gly Ile Gln Gln Arg Gly Arg Ser Cys Asp Ser Leu Asn
 20 25 30
 Asn Arg Cys Glu Gly Ser Ser Val Gln Thr Arg Thr Cys His Ile Gln
 35 40 45
 Glu Cys
 50

<210> 7
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 7
 Asp Gly Gly Trp Ser His Trp Ser Pro Trp Ser Ser Cys Ser Val Thr
 1 5 10 15
 Cys Gly Asp Gly Val Ile Thr Arg Ile Arg Leu Cys Asn Ser Pro Ser
 20 25 30
 Pro Gln Met Asn Gly Lys Pro Cys Glu Gly Glu Ala Arg Glu Thr Lys
 35 40 45
 Ala Cys Lys Lys Asp Ala Cys Pro Ile
 50 55

<210> 8
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 8
 Asn Gly Gly Trp Gly Pro Trp Ser Pro Trp Asp Ile Cys Ser Val Thr
 1 5 10 15
 Cys Gly Gly Gly Val Gln Lys Arg Ser Arg Leu Cys Asn Asn Pro Thr
 20 25 30
 Pro Gln Phe Gly Gly Lys Asp Cys Val Gly Asp Val Thr Glu Asn Gln
 35 40 45
 Ile Cys Asn Lys Gln Asp Cys Pro Ile
 50 55

<210> 9
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 9
 Glu Glu Gly Trp Ser Pro Trp Ala Glu Trp Thr Gln Cys Ser Val Thr
 1 5 10 15
 Cys Gly Ser Gly Thr Gln Gln Arg Gly Arg Ser Cys Asp Val Thr Ser
 20 25 30
 Asn Thr Cys Leu Gly Pro Ser Ile Gln Thr Arg Ala Cys Ser Leu Ser
 35 40 45
 Lys Cys
 50

<210> 10
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 10
 Asp Gly Gly Trp Ser His Trp Ser Pro Trp Ser Ser Cys Ser Val Thr
 1 5 10 15
 Cys Gly Val Gly Asn Ile Thr Arg Ile Arg Leu Cys Asn Ser Pro Val
 20 25 30
 Pro Gln Met Gly Gly Lys Asn Cys Lys Gly Ser Gly Arg Glu Thr Lys
 35 40 45
 Ala Cys Gln Gly Ala Pro Cys Pro Ile
 50 55

<210> 11
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 11
 Asp Gly Arg Trp Ser Pro Trp Ser Pro Trp Ser Ala Cys Thr Val Thr
 1 5 10 15
 Cys Ala Gly Gly Ile Arg Glu Arg Thr Arg Val Cys Asn Ser Pro Glu
 20 25 30
 Pro Gln Tyr Gly Gly Lys Ala Cys Val Gly Asp Val Gln Glu Arg Gln
 35 40 45
 Met Cys Asn Lys Arg Ser Cys Pro
 50 55

<210> 12

<211> 3974

<212> DNA

<213> Homo sapiens

<400> 12

ggtacctaag tgagtagggc gtccgatcga cggacgcctt ttttttgaat tcgtaatcat 60
ggtcatagct gtttcctgtg tgaaattgtt atccgctcac aattccacac aacatacgag 120
ccggaagcat aaagtgtaaa gcctgggggtg cctaattgagt gagctaactc acattaattg 180
cgttgcgctc actgcccgtt ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa 240
tcggccaacg cgcggggaga ggcggtttgc gtattgggag ctcttcgctt tcctcgctca 300
ctgactcgct gcgctcggtc gttcggctgc ggcgagcggc atcagctcac tcaaaggcgg 360
taatacgggt atccacagaa tcaggggata acgcaggaaa gaacatgtga gcaaaaggcc 420
agcaaaaggc caggaaccgt aaaaaggccg cgttgctggc gtttttccat aggctccgcc 480
ccctgacga gcatcacaaa aatcgacgct caagtcagag gtggcgaaac ccgacaggac 540
tataaagata ccaggcggtt cccctgggaa gtcctcctgt gcgctctcct gttccgacct 600
tgccgcttac cggatacctg tccgcctttc tcccttcggg aagcgtggcg ctttctcata 660
gtcacgctg taggtatctc agttcgggtg aggtcgttcg ctccaagctg ggctgtgtgc 720
acgaaccccc cgttcagccc gaccgctgcg cttatccgg taactatcgt cttgagtcca 780
accgggtaag acacgactta tcgccactgg cagcagccac tggtaacagg attagcagag 840
cgagggtatg aggcgggtgt acagagttct tgaagtgggt gcctaactac ggctacacta 900
gaagaacagt atttggtatc tgcgctctgc tgaagccagt taccttcgga aaaagagttg 960
gtagctcttg atccggcaaa caaaccaccg ctggtagcgg tggttttttt gtttgcaagc 1020
agcagattac gcgcagaaaa aaaggatctc aagaagatcc tttgatcttt tctacggggg 1080
ctgacgctca gtggaacgaa aactcacgtt aagggatttt ggtcatgaga ttatcgatga 1140
caattcgcgc gcgaaggcga agcggcatgc atttacgttg acaccatcga atggtgcaaa 1200
acctttcgcg gtatggcatg atagcgcccg gaagagagtc aattcagggt ggtgaatgtg 1260
aaaccagtaa cgttatacga tgcgcagag tatgccggtg tctcttatca gaccgtttcc 1320
cgcgtggtga accaggccag ccacgtttct gcgaaaacgc gggaaaaagt ggaagcggcg 1380
atggcggagc tgaattacat tcccaaccgc gtggcacaac aactggcggg caaacagtcg 1440
ttgtgatgtg gcgttgccac ctccagtcgt gccctgcacg cgcgctcgca aattgtcgcg 1500
gcgattaaat ctgcgcgca tcaactgggt gccagcgtgg tgggtgcgat ggtagaacga 1560
agcggcgctg aagcctgtaa agcggcgggt cacaatcttc tcgcgcaacg cgtcagtggt 1620
ctgatcatta actatccgct ggatgaccag gatgccattg ctgtggaagc tgcctgcact 1680

aatgttcggt cggtatttct tgatgtctct gaccagacac ccatcaacag tattattttc 1740
tcccatgaag acggtacggt actgggctgt gagcatctgt tcgcattggg tcaccagcaa 1800
atcgogctgt tagcggggccc attaatgtct gtctcggcgc gtctgcgtct ggctggctgt 1860
cataaataat tcaactgcaa tcaaattcag ccgatagcgg aacgggaagg cgactggagt 1920
gccatgtccg gttttcaaca aaccatgcaa atgctgaatg agggcatcgt tcccactggt 1980
atgctgggtt ccaacgatca gatggcgtgt ggcgcaatgc gcgccattac cgagtccggg 2040
ctgcgcgttg gtgcggatat ctcggtagtgt ggatacgacg ataccgaaga cagctcatgt 2100
tatatccgcg cgtaaacac catcaaacag gattttcgcc tgctggggca aaccagcgtg 2160
gaccgcttgc tgcaactctc tcagggccag gcggtgaagg gcaatcagct gttgcccgtc 2220
tcaactggtga aaagaaaaac caccctggcg cccaatacgc aaaccgcctc tccccgcgcg 2280
ttggcgcatt cattaatgca gctggcacga caggtttccc gactggaaag cgggcagtga 2340
gcgcaacgca attaatgtaa gtttagcgca attgtcgacc aaagcggcca tcgtgcctcc 2400
ccactcctgc agttcggggg catggatgct cggatagcgg ctgctggttt cctggatgcc 2460
gacggatttg cactgccggt agaactccgc gaggtcgtcc agcctcaggc agcagctgaa 2520
ccaactcgcg aggggatcga gcccggggtg ggcgaagaac tccagcatga gatccccgcg 2580
ctggaggatc atccagccgg cgtcccgga aacgattccg aagcccaacc tttcatagaa 2640
ggcggcgtgt gaatcgaaat ctctgatgtg caggttgggc gtctgttgtt cggtcatttc 2700
gaaccccgag gtcccgtcga gaagaactcg tcaagaaggc gatagaaggc gatgcgctgc 2760
gaatcgggag cggcgatacc gtaaagcacg aggaagcgtt cagcccatc gccgccaagc 2820
tcttcagcaa tatcacgggt agccaacgct atgtcctgat agcggtcgc cacaccagc 2880
cggccacagt cgatgaatcc agaaaagcgg ccattttcca ccatgatatt cggcaagcag 2940
gcacgcgcat gggtcacgac gagatcctcg ccgtcgggca tgcgcgcctt gagcctggcg 3000
aacagttcgg ctggcgcgag cccctgatgc tcttcgtcca gatcatcctg atcgacaaga 3060
cggcttcca tccgagtacg tgctcgtctg atgcgatgtt tcgcttggtg gtogaatggg 3120
caggtagcgg gatcaagcgt atgcagccgc cgcattgcat cagccatgat ggatactttc 3180
tcggcaggag caaggtgaga tgacaggaga tctgccccg gcacttcgcc caatagcagc 3240
cagtccttcc cgccttcagt gacaacgtcg agcacagctg cgcaaggaaac gcccgctgtg 3300
gccagccacg atagccgcgc tgcctcgtcc tgcagttcat tcagggcacc ggacaggctg 3360
gtcttgacaa aaagaaccgg gcgcccctgc gctgacagcc ggaacacggc ggcatcagag 3420
cagccgattg tctgttgtgc ccagtcatag ccgaatagcc tctccacca agcggccgga 3480
gaacctgogt gcaatccatc ttgttcaatc atgcgaaacg atcctcatcc tgtctcttga 3540

```
<210> 13
<211> 112
<212> DNA
<213> Homo sapiens
```

```
<210> 14
<211> 542
<212> DNA
<213> Mus musculus
```

```
<220>
<221> Misc_feature
<222> (21)
<223> N is any nucleic acid
```

```
<220>
<221> Misc_feature
<222> (22)
<223> N is any nucleic acid
```

```
<220>
<221> Misc_feature
<222> {361}
<223> N is any nucleic acid
```

```
<220>
<221> Misc_feature
<222> (369)
<223> N is any nucleic acid
```

```
<220>
<221> Misc feature
```

```

<400> 14
gtncgaattt cggcacgaga nnttagacgc cttttcatgg aagctgggga atgtgggggc 60
cttggggaga ctgttcgaga acgtgcggtg gaggagtcca gtacacgatg agggaatgtg 120
acaaccagt cccaaagaat ggagggaggt actgtgaagg caaacgagtg cgctacagat 180
cctgtaacct tgaggactgt ccagacaata atggaaaaac ctttagagag gaacaatgtg 240
aagcacacaa cgagttttca aaagcttcct ttgggagtgg gcctgcggtg gaatggattc 300
ccaagtacgc tggcgtctca ccaaaggaca ggtgcaagtt catgttgcca agccaaaggc 360
nttggtant tctttcgttt tgcagcccaa ggttgtagg tgggtantcc atgttaggcc 420
cagattncac ctttgtctgt gtgcaaggac agtgtgttaa aagttggttg tgatccgcnt 480
cntagattcc aaaaggagtt ttgttaatgt ggtgttttcn gggggaatgg tctantttta 540
aa

```

<400> 15
cagagaacat tcgccccact cttcaatgac ccatgctgaa aaagtgggga tagcattgaa 60

agattccttc ttctttcttta cgaagtaggt gtattttaatt ttaggtcgaa gggcattgcc 120
cacagtaaga acctggatgg tcaagggctc tttagagagg ctaaagctgc gaattctttc 180
caatgccgca gaggagccgc tgtacctcaa gacaacacct ttgtacataa tgtcttgctc 240
taaggtggac aaagtgtagt caccattaag aatatatgtg ccatcagcag ctttgatggc 300
aagaaagctg cccttggtcc 320

<210> 16
<211> 316
<212> DNA
<213> Eimeria tenella

<400> 16
aatgccgaga cattaatgga cagcctgctt ccgagtgtgc aaaggaagtg aagccagcca 60
gcaccagacc ttgtgcagac catccctgcc ccagtgga gctgggggag tggatcatcat 120
gttctaagac ctgtgggaag gggtacaaaa aaagaagctt gaagtgtctg tcccatgatg 180
gaggggtgtt atctcatgag agctgtgatc ctttaaagaa acctaaacat tcatagact 240
tttgacaat ggcagaatgc agttaagtgg tttaagtggg gttagctttg agggcaaggc 300
aaagtgagga agggct 316

<210> 17
<211> 383
<212> DNA
<213> Caenorhabditis elegans

<220>
<221> Misc_feature
<222> (160)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (326)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (358)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (366)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (377)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (379)
<223> N is any nucleic acid

<400> 17
gtcgacccac gcgtccggat ggtactccat gtagcccaga ttccacctct gtctgtgtgc 60
aaggacagtg tgtaaaagct ggttgtgatc gcatcataga ctccaaaaag aagtttgata 120
aatgtggtgt ttgcggggga aatggatcta cttgtaaaan aatatcagga tcagttacta 180
gtgcaaaacc tgggatatca tgatatcatc acaattccaa ctgggagcca ccaacatcga 240
agtgaacag cggaaccaga ggggatccag ggaacaatgg gcagctttct tgccatcaaa 300
gctgctggat ggcacatata ttctttaatg gtgactacac tttgtccacc ttagaganag 360
acattntgtg acaaagnnt tgt 383

<210> 18
<211> 404
<212> DNA
<213> Crotalus atrox

<220>
<221> Misc_feature
<222> (21)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (301)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (335)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (373)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (378)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (382)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (383)
<223> N is any nucleic acid

```
<210> 19
<211> 152
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> Misc_feature
<222> (122)
<223> N is any nucleic acid
```

```
<400> 19
atcgtagaag atgaaaaatg gggcccagag gtgtccgaca atgggggggct tacactgctg 60
aacttctgca actggcagcg gcgtttcaac cagcccagcg accgncaccc agagcactac 120
gncacggcca tcctnctcac cagacagaac tt                                     152
```

<210>	20
<211>	4180
<212>	DNA
<213>	Unknown

<220>
<223> Description of Unknown Organism:Unknown

```
<400> 20
gcagctccga gctaggtgct atcgcaaggc cagagcgcac agcccggcgg agagagcaga 60
tccttgctca gatcgagtca aatcggggcca aggcggagga cgaagagtcc aggcctcctat 120
tctggacttg ttccccagct cggggggcgc ttctaggtcc tgcagcagcc agcagtgcgg 180
agccaccaac tcggtgctgg aatgaaaaaa ttcccgcgcg ccagtgcaga atctttctaa 240
```


gtgacccgga	gcttcgggtg	ctagctctgc	acgaactttc	ccatcaaagt	gatcgtgaat	300
tttaagcatc	aggagcaggc	cagcgaagct	ctacgcgtct	aaacgtctat	ccagaccaag	360
agttctctgc	ggtgcagggg	gcggtgccat	gcagccaaaa	gtcccttttg	gggtcacgca	420
agcagaagcc	ctgctccgac	atgggggacg	tccagcgggc	agcgagatct	cggggctctc	480
tgtccgcaca	catgctgttg	ctgctcctcg	cttccataac	aatgctgcta	tgtgcgcggg	540
gcgcacacgg	gcgccccacg	gaggaagatg	aggagctggt	cctgccctcg	ctggagcgcg	600
ccccgggcca	cgattccacc	accacacgcc	ttcgtctgga	cgcctttggc	cagcagctac	660
atctgaagtt	gcagccggac	agcggtttct	tggcgcctgg	cttcaccctg	cagactgtgg	720
ggcgcagtcc	cgggtccgag	gcacaacatc	tggacccac	cggggacctg	gctcactgct	780
tctactctgg	cacggtgaac	ggtgatcccg	gctctgccgc	agccctcagc	ctctgtgaag	840
gtgtgcgtgg	tgccttctac	ctacaaggag	aggagtctct	cattcagcca	gcgcctggag	900
tggccaccga	gcgcctggcc	cctgccgtgc	cgcaggagga	gtcatccgca	cggccgcagt	960
tccacatcct	gaggcgaagg	cggcggggca	gtggcggcgc	caagtgcggc	gtcatggacg	1020
acgagaccct	gccaaccagc	gactcgcgac	ccgagagcca	gaacaccggg	aaccagtggc	1080
ctgtgcggga	ccccacgcct	caggacgcgg	gaaagccatc	aggaccagga	agcataagga	1140
agaagcgatt	tgtgtccagc	ccccgttatg	tggaaaccat	gctcgtagct	gaccagtcca	1200
tggccgactt	ccacggcagc	ggtctaaagc	attaccttct	aaccctgttc	tcggtggcag	1260
ccagggtttta	caagcatccc	agcattagga	attcaattag	cctgggtggg	gtgaagatct	1320
tgggtcatata	cgcaggagcag	aagggaccag	aagttacctc	caatgcagct	ctcacccctc	1380
ggaattttctg	cagctggcag	aaacaacaca	acagccccag	tgaccgggat	ccagagcact	1440
atgacactgc	aattctgttc	accagacagg	atttatgtgg	ctccacacg	tgtgacactc	1500
tcggaatggc	agatgtttga	accgtatgtg	accccagcag	gagctgctca	gtcatagaag	1560
atgatggttt	gcaagccgcc	ttcaccacag	cccatgaatt	gggccatgtg	tttaacatgc	1620
cgcacgatga	tgctaagcac	tgtgccagct	tgaatggtgt	gagtggcgat	tctcatctga	1680
tggcctcgat	gctctccagc	ttagaccata	gccagccctg	gtcaccttgc	agtgcctaca	1740
tggtcacgtc	cttcctagat	aatggacacg	gggaatgttt	gatggacaag	ccccagaatc	1800
caatcaagct	cccttctgat	cttcccggta	ccttgtacga	tgccaaccgc	cagtgtcagt	1860
ttacattcgg	agaggaatcc	aagcactgcc	ctgatgcagc	cagcacatgt	actaccctgt	1920
ggtgcactgg	cacctccggt	ggcttactgg	tgtgccaaac	aaaacacttc	ccttggggcag	1980
atggcaccag	ctgtggagaa	gggaagtggg	gtgtcagtgg	caagtgcgtg	aacaagacag	2040
acatgaagca	ttttgtact	cctgttcatg	gaagctgggg	accatggggg	ccgtgggggag	2100

actgctcaag	aacctgtggt	ggtggagttc	aatacacaat	gagagaatgt	gacaacccag	2160
tcccaaagaa	cggaggggaag	tactgtgaag	gcaaacgagt	ccgctacagg	tcctgttaaca	2220
tcgaggactg	tccagacaat	aacggaaaaa	cgttcagaga	ggagcagtgc	gaggcgcaca	2280
atgagttttc	caaagcttcc	tttgggaatg	agcccactgt	agagtggaca	cccaagtacg	2340
ccggcgtctc	gccaaaggac	aggtgcaagc	tcacctgtga	agccaaaggc	attggctact	2400
ttttcgtctt	acagcccaag	gttgtagatg	gcactccctg	tagtccagac	tctacctctg	2460
tctgtgtgca	agggcagtgt	gtgaaagctg	gctgtgatcg	catcatagac	tccaaaaaga	2520
agtttgataa	gtgtggcggt	tgtggaggaa	acggttccac	atgcaagaag	atgtcaggaa	2580
tagtcactag	tacaagacct	gggtatcatg	acattgtcac	aattcctgct	ggagccacca	2640
acattgaagt	gaaacatcgg	aatcaaaggg	ggtccagaaa	caatggcagc	tttctggcta	2700
ttagagccgc	tgatgggtacc	tatatcttga	atggaaactt	cactctgtcc	acactagagc	2760
aagacctcac	ctacaaaggt	actgtcttaa	ggtacagtgg	ttcctcggct	gcgctggaaa	2820
gaatccgcag	ctttagtcca	ctcaaagaac	ccttaaccat	ccaggttctt	atggtaggcc	2880
atgctctccg	acccaaaatt	aaattcacct	actttatgaa	gaagaagaca	gagtcattca	2940
acgccattcc	cacattttct	gagtgggtga	ttgaagagtg	gggggagtg	tccaagacat	3000
gcggctcagg	ttggcagaga	agagtagtgc	agtgcagaga	cattaacgga	cacctgctt	3060
ccgaatgtgc	aaaggaagtg	aagccagcca	gtaccagacc	ttgtgcagac	cttccttgcc	3120
cacactggca	ggtgggggat	tggtcaccat	gttccaaaac	ttgcgggaag	ggttacaaga	3180
agagaacctt	gaaatgtgtg	tcccacgatg	ggggcgtggt	atcaaatgag	agctgtgatc	3240
ctttgaagaa	gccaaagcat	tacattgact	tttgcacact	gacacagtgc	agttaagagg	3300
cgttagagga	caaggtagcg	tggggagggg	ctgatacact	gagtgcaga	gtactggagg	3360
gatccagtga	gtcaaaccag	taagcagtga	ggtgtggcaa	ggaggtgtgt	gtaggggata	3420
catagcaaag	gaggtagatc	aggacactac	cctgccagtt	acattctgat	aaggtagtta	3480
atgaggcaca	gtagcatctg	aaagaccata	cagagcacta	aggagcccca	aagcactatt	3540
agtatctctt	ttcttatatc	tatcgcccaa	ataattttca	gagtctggca	gaagccctgt	3600
tgcactgtac	taactagata	cttcttatca	caaagattgg	gaaaggcaaa	gcagaaagat	3660
ggtaagactg	ggtttcaaac	aaggcttggt	ttcaatcact	ggaggcaagg	aggaggggac	3720
aaacaagatc	attattcgaa	gtcgctgggt	gctgtggttt	tacggaaggt	tgatgcatca	3780
ttcctatcaa	cagtgaaaag	ttcagcttgt	tcaacgtgac	agaaaggctc	atctccgtga	3840
aagagctcct	gatttcttct	tacaccatct	cagttcttaa	ctatagttca	tgttgaggta	3900
gaaacaattc	atctattttat	aaaatgtaca	ttggaaaaaa	aaagtgaagt	ttatgaggta	3960

cacataaaaa ctgaaggaaa caatgagcaa catgcctcct gctttgcttc ctcctgaggt 4020
 aaacctgcct ggggattgag gttgtttaag attatccatg gtcacaaga ggcagtaaaa 4080
 taatacatgt tgtgccagag ttagaatggg gtatagagat caggggccca tgagatgggg 4140
 aacatggtga tcaatcatct cacatgggag gctgctgcag 4180

<210> 21
 <211> 9248
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown Organism:Unknown

<400> 21
 gcagctccga gctaggtgct atcgcaaggc cagagcgcac agcccggcgg agagagcaga 60
 tccttgctca gatcgagtca aatcggggcc aaggcggagg acgaagagtc caggctccta 120
 ttctggactt gttccccagc tccgggggag cttctaggtc ctgcagcagc caggagtgcg 180
 gagccacca ctcggtgctg gaatgaaaa attcccgcg gccagtgcag aatctttcta 240
 agtgaccgg agcttcgggt gctagctctg cacgaacttt cccatcaaag tgatcgtgaa 300
 ttttaagcat caggagcagg ccagcgaagc tctacgcgtc taaacgtcta tccagacca 360
 gagttctctg cgggtgcaggg tgcggtgcca tgcagccaaa agtccctttg gggtcacgca 420
 agcagaagcc ctgctccgac atgggggacg tccagcgggc agcgagatct cggggctctc 480
 tgtccgcaca catgctgttg ctgctcctcg cttccataac aatgctgcta tgtgcgcggg 540
 gcgcacacgg gcgccccacg gaggaagatg aggagctggt cctgccctcg ctggagcgcg 600
 ccccgggcca cgattccacc accacacgcc ttctgtctga cgcctttggc cagcagctac 660
 atctgaagtt gcagccggac agcggtttct tggcgcttg cttcaccctg cagactgtgg 720
 ggcgcagtcc cgggtccgag gcacaacatc tggacccac cggggacctg gctcaactgct 780
 tctactctgg cacggtgaac ggtgatcccg gctctgccgc agccctcagc ctctgtgaag 840
 gtgtgcgtgg tgccttctac ctacaaggag aggagttctt cattcagcca gcgcctggag 900
 tggccaccga gcgcctggcc cctgcctgac ccgaggagga gtcacccgca cggccgcagt 960
 tccacatcct gaggcgaagg cggcggggca gtggcggggc caagtgcggc gtcattggacg 1020
 acgagaccct gccaacccagc gactcgcgac ccgagagcca gaacacccgg aaccagtggc 1080
 ctgtgcggga cccacgcct caggacgcgg gaaagccatc aggtataaga gtgaccccca 1140
 tctctcagtc ttacagaggc gtgacttggg gtcacactcc agatcgctc taaatgcgaa 1200
 tgactcagac ttgcagtga ttgaagttct gggctcgtgac cttcccgctc ccccccccc 1260
 aaaaaaagtg tgaccatact ctgctagaac acttatttgc ccgaatagtt aataatttga 1320

gaaaagagaga	aagaatcgga	ggtcctgtag	ataagggcta	agcgtttcct	ccgcgaagcc	1380
aataacccga	ctccttacac	tggagaatct	ctctccatcc	ctttaatgcc	tttagtgaat	1440
gtatgagttc	actttaacta	ggttgtagtt	tcgcgctgag	ttttgtaacg	tcagtccgtg	1500
tgagcacgta	gcgctcaaag	gagggcggag	tagaggagcc	atggtgacct	ggatgtgcgt	1560
tcaggagcct	gggcaacggc	agtggtgatc	tcattttctgt	ggccttccgt	ctgtccccct	1620
ccccatttg	aaaagctgac	cccgatggct	ggtggctccg	ttgggcccct	ctgcagaacc	1680
tgcttgggag	gtctttgctt	ggttcgcccc	gcctccacgc	gcctcctacc	tcggcctcgt	1740
tgctcgcact	ccctctcccg	gcagaggttg	gactccccag	cgctgtggaa	tgtaggcctg	1800
gactgatcct	ccttgcctaca	cattcgccctg	actctgccgt	gttcagtctc	taccagccag	1860
ttagttcttt	ttaatcattc	aaattttcttt	ttgccctttt	ctagattttct	ccctcttttc	1920
cgacttgtcc	ctaggagctg	gtattcatat	cctactttac	gattttctctg	accgctgagt	1980
ctcagcagcc	cgaaaaaggc	catttttccaa	attggcaacc	ctggtttgag	aaaggaactt	2040
attccccccg	gggcactggg	agtgagagga	ggcaggaaaa	cactgctggg	cagagtgggt	2100
ggtcctagt	cccggaaactg	gatcaagcag	agaacccct	gggacccctt	gaatgagaga	2160
gctgagcctt	acagactgag	actcctcaag	ccccacccct	tggtgagct	ccccgcctg	2220
ccccatgcct	tccacgtgga	gctggatgat	ctcattoggg	atttcagccc	tggcttcaat	2280
agtgaaaggg	tgactcagg	cgcccgccctg	cttctcttgc	caagttttta	ctacagctgg	2340
gtagaaatga	tagccatact	gcctcaactca	ggctgtggag	tcttcaaaga	ccacaaaaga	2400
aatctgcgga	cacatatata	gacagtttga	tcactctggt	gcttgctttg	ttttgttttg	2460
ttttgtctta	tttaaagcaa	aagaaaaaag	acttaaaaat	aactcacagt	ttttagaaga	2520
tgcaaataatt	tgtttttattt	ttgttccagg	tgtatttcag	ttttattttac	tttgactagg	2580
ttgactttcc	taatataccc	cgagaaggtc	actattagga	gaaggactgc	ccatgagcaa	2640
acttcctttt	cttttttacag	gaccaggaag	cataaggaag	aagcgatttg	tgtccagccc	2700
cogttatgtg	gaaaccatgc	tcgtggctga	ccagtcocatg	gccgacttcc	acggcagcgg	2760
tctaaagcat	tacctttctaa	ccctgttctc	ggtggcagcc	aggtttttaca	agcatcccag	2820
cattaggaat	tcaattagcc	tggtggtggt	gaagatcttg	gtcatatatg	aggagcagaa	2880
gggaccagaa	gttacctcca	atgcagctct	cacccttogg	aattttctgca	actggcagaa	2940
acaacacaac	agccccagtg	accgggatcc	agagcactat	gacactgcaa	ttctgttcac	3000
cagacaggta	agacaggagc	ttatcaacca	tttcatcaac	tcaactogga	ggtcagcctt	3060
gtgttgatg	ggatgagagg	gtgggggtgt	ggcggagagg	aaaccagaa	ggggatgaca	3120
tttgaaatgt	aaacaaaata	accaattaaa	aaaaaaaaggc	atctcatctg	tattgootca	3180

tttcttttctg	gttataggct	agctcaatct	gtcttgctta	tttctatttt	aaacttccac	3240
atctcaagtt	ctacagttct	attttaaaag	cattacaggg	aatcttgctt	agagtcagtc	3300
cttcaagccc	agcaataatg	aatggacagg	cttcaaagtg	catgtgaaga	cacgcccac	3360
tgaagagcta	agtatcactc	tctcctactt	aaaagggatt	tcccttgccct	ctttgtagga	3420
tttatgtggc	tcccacacgt	gtgacactct	cgggatggca	gatgttgga	ctgtatgtga	3480
ccccagcagg	agctgctcag	tcatagaaga	tgatggtttg	caagccgcct	tcaccacagc	3540
ccacgaattg	ggtaagtcgg	cttcagagta	caagttaagc	ccaaatgcat	ggatacaacc	3600
caataagtca	atctgatgtg	acgagagaga	aaacatctca	gactatgttg	ctacctcagc	3660
caccagcaat	tttagaaggg	gtaggggtata	ttttccacga	tttcaagtat	ggctcttacta	3720
ggacaggaga	aagtgggtaca	aacatttgaa	cgttgacatt	tttatacttg	ccctgatcaa	3780
agtgagtatg	agcccccaata	caggttgtct	aataagagag	ccattgagcc	tcactcaata	3840
atacagctga	atgtccttct	tgtctgcttc	ccaggccatg	tgtttaacat	gccgcacgat	3900
gatgctaagc	actgtgccag	cttgaatggg	gtgactggcg	attctcatct	gatggcctcg	3960
atgctctcca	gcttagacca	tagccagccc	tggtcacctt	gcagtgccta	catggtcacg	4020
tccttcttag	ataatggaca	cggtaagatg	acagctcctc	tttcagatg	gtgttcaacc	4080
ttccttgtgt	agggctctct	ctggctaagt	gagctocatg	gctcttgctc	atttcccctc	4140
cttcagagtt	ttctctggca	ggatcataag	tagtagatct	ttacctccat	tgcactctgc	4200
tcccaaagtc	cattcattca	taaacaataa	cttctcgcca	ttgtaaaatc	agaagtcccc	4260
tattgaggat	aacgtctcga	taaaaatcta	aagtccocta	gcattgattt	tccccaaaat	4320
gcatgatttc	accaaacatg	tattaataat	tgccctctttt	ttcttttctt	tttttttttt	4380
tattatttta	ggggaatgtt	tgatggacaa	gccccagaat	ccaatcaagc	tcccttctga	4440
tcttcccggt	accttgtagc	atgccaaaccg	ccagtgtcag	tttacattcg	gagaggaatc	4500
caagcactgc	cctgatgcag	ccagcacatg	tactaccctg	tggtgcactg	gcacctccgg	4560
tggtttactg	gtgtgccaaa	caaaacactt	cccttggggca	gatggcacca	gctgtggaga	4620
aggggaagtgg	tgtgtcagtg	gcaagtgcgt	gaacaagaca	gacatgaagc	attttgctgt	4680
gagttttccc	aatgaaacat	atccgttttg	aactcagggg	tgagaagggc	aaagtgatgg	4740
tttagttcct	ttcctagaca	aactcctcta	cctgtgtcct	gtagtggggac	tatgagatgg	4800
tagcgtattt	tgagaattga	ttgtctgttt	tacatttttc	tctgattccc	taaaatgtct	4860
ttatagttct	aacactgata	tctgtatctc	catttagact	cctgttcatg	gaagctgggg	4920
accatggggga	ccgtgggggag	actgctcaag	aacctgtggg	ggtggagttc	aatacacaat	4980
gagagaatgt	gacaacccag	tcccaaagaa	cggagggaag	tactgtgaag	gcaaacgagt	5040

ccgctacagg tctgttaaca tcgaggactg tccagacaat aacggtgagt catactggac 5100
ttcagctctc agaaaccggg caaaggcggc gtgccacaac atgtggttgg aagttggaaa 5160
ctgggaacat catcgccgtc gttctctttt caggaaaaac gttcagagag gagcagtgcg 5220
aggcgcacaa tgagttttcc aaagcttcct ttgggaatga gccactgta gagtggacac 5280
ccaagtacgc cggcgtctcg ccaaaggaca ggtgcaagct cacctgtgaa gccaaaggca 5340
ttggctactt tttcgtctta cagcccaagg taggtgcttt tacacttgaa tctttgcaaa 5400
ggagcctcag ctgggcttgc tgccatgcca taaaaatgtt tgggctgtct ttacctattg 5460
atctgtgttc cgttttgaat ttggaatact tctaaatgca ggaacaactc cttgcttttg 5520
gatttgttgt tgccctctgt tgggaaggaa gcttaaatct agctagcact taaaagagtc 5580
ttgcatgtgt ttaatattgc ttctctatcc ccaaagaatg gccctttgaa aactcaagag 5640
ccctctctgt ataactaggt ttcacataca aaaattcatg gttagataaa ttatatatta 5700
acatggcacc caggagtttt agaaagtagt ccaaagtact tgttactggg tacctagcag 5760
cgcacatac gagcacacta actaaggtaa gagtttgaga attaaaaatt catcgttga 5820
acatgtactt tgaccaaaga gactcgccat ttcttttggg gttttgcaga aaggataaat 5880
cctgctttga agaagaaaat tgaatgaaat ttgcttaagc ttgtcatgta ttcttagcat 5940
tataagatag caaactatat ccaagttgtg gatgaagtat ttagcaagtg atttataaag 6000
taccttcaac tacagcatat tattctaggt actgaccatg gaacaataat cagtgtgaca 6060
gtgaaccctg cttccattga cctaggccag caaatatata aatcaagac atttataagc 6120
cttacagata gctatatgaa ctgttgaaaa agccaaaatg aaagtgaaca tgtggcacgt 6180
gacaaggaga ctacttgtag cctgggagga gagcattccc agttgccatc acatcagatg 6240
tttaaccacc atggtgcatg ttgtctccac aggttgtaga tggcactccc tgtagtccag 6300
actctacctc tgtctgtgtg caagggcagt gtgtgaaagc tggctgtgat cgcacatag 6360
actccaaaaa gaagtttgat aagtgtggcg tttgtggagg aaacggttcc acatgcaaga 6420
agatgtcagg aatagtcact agtacaaggt gagtttcaga acgctcactt ctgcagtaga 6480
cacgctgtgt tgctcagttg gtccctagca tctacaagac cttgggttca atccgcatgc 6540
atgtacctgt agtcccagtg tatgggagac agagacaagt gtgacaagac ggtcagatgt 6600
tcaggtcatc tttgctacat agtgactttc agttcacctt ggggaacatg aaaaacctga 6660
ctggaaacac aaacacacac aaacaatta acccaggtac ttcattgtaat cccagtgttc 6720
agtaggctga cttgggagga tggttgctat aaggcctagg ttagcttggg ctacataatg 6780
agttccagta taacctggcc cacaagtga ccctaaagtt aattaatcga cacatgaaac 6840
aaaacacatg ctttgagagac cctgtaattt tgatatacga tttttagtaga ctaaggaaaa 6900

495353

gtcacattta aaagaattgc ctatTTTTaa agcaatgtga ttgattaact cattgaaaga 6960
catatacctg ttttctttgt ccacagacct gggatatcatg acattgtcac aattcctgct 7020
ggagccacca acattgaagt gaaacatcgg aatcaaaggg ggtccagaaa caatggcagc 7080
tttctggcta ttagagccgc tgatgggtacc tatattctga atggaaactt cactctgtcc 7140
acactagagc aagacctcac ctacaaaggt actgtcttaa ggtacagtgg ttcctcggct 7200
gcgctggaga gaatccgcag ctttagtoca ctcaaagaac ccttaaccat ccaggttctt 7260
atggtaggcc atgctctccg acccaaaatt aaattcacct actttatgaa gaagaagaca 7320
gagtcattca acgccattcc cacatTTTct gagtgggtga ttgaagagtg gggggagtgc 7380
tccaagacat gcggtcagc ttggcagaga agagtgtgc agtgcagaga cattaatgga 7440
cacctgctt ccgaatgtgc aaaggaagtg aagccagcca gtaccagacc ttgtgcagac 7500
cttccttgcc cactctggca ggtgggggat tggtcacat gttccaaaac ttgcgggaag 7560
ggttacaaga agagaacctt gaaatgtgtg tccacgatg ggggcgtgtt atcaaagtag 7620
agctgtgatc ctttgaagaa gccaaagcat tacattgact tttgcacact gacacagtgc 7680
agttaagagg cgttagagga caaggtagcg tggggagggg ctgatacact gagtgtctgga 7740
gggatccagt gagtcaaacc agtaagcagt gaggtgtggc aaggaggtgt gtgtagggga 7800
tacatagcaa aggaggtaga tcaggacact accctgccag ttacattctg ataaggtagt 7860
taatgaggca cagtagcatc tgaaagacca tacagagcac taaggagccc caaagcacta 7920
ttagtatctc ttttcttata tctatcgccc aaataatttt cagagtctgg cagaagccct 7980
gttgactgt actgactaga tacttcttat cacaagatt gggaaaggca aagcagaaag 8040
atggtaagac tgggtttcaa acaaggcttg gtttctatca ctggaggcaa ggaggagggg 8100
acaaacaaga tcattattcg aagtcgctgg ttgctgtggt tttacggaag gttgatgcat 8160
cattcctatc aacagtgaag agttcagctt gttcaacgtg acagaaaggc tcctctccgt 8220
gaaagagctc ctgatttctt cttacaccat ctgattctt aactataatt catgttgagg 8280
tagaaacaat tcctctatct ataaaatgta cattggaaaa aaaaaagtga agtttatgag 8340
gtacacataa aaactgaagg aaacaatgag caacatgcct cctgctttgc ttcctcctga 8400
ggtaaacctg cctggggatt gaggttgttt aagattatcc atggctcaca agaggcagta 8460
aaataatata tggtgtgcca gagttagaat ggggtataga gatcagggc ccatgagatg 8520
gggaacatgg tgatcactca tctcacatgg gaggtgtctg cagggtagca ggtccactcc 8580
tggcagctgg tccaacagtc gtatcctggt gaatgtctgt tcagctcttc tactgagaga 8640
gaatatgact gtttccatat gtatatgtat atagtaaaat atgttactat gaattgcatg 8700
tactttataa gtattggtgt gtctgttctt tctaagaagg actatagttt ataataaatg 8760

cctataataa catatttatt ttatatacatt tattttctaata gataaaacct ttaagttata 8820
 tcgctttttgt aaaagtgcata ataaaaatag agtattttata caatatatgt taactagaaa 8880
 taataaaaaga acactttttga atgtgtatgc ctatttttctg gagtgggatt aacttctggg 8940
 caagaaatct gatgagacac aaacattgga cttcaagaca gttttaaaat ttgggtaaat 9000
 gaactgtatt tcctgtttat agacgtacta ataaaaaaga agttgatgat gtcttttagtg 9060
 gtaagattgt tactaatgtg gttggcaaata tgctgtaaag agccagatag taagcattta 9120
 tggcattgta ggctatcttt cctgccacaa ccatgtgaca gtgagtgcct ttaggactg 9180
 agagcagcca taaatgacat gtaaatagata aactgtggct gtgctttaat aaaactttat 9240
 ttacaaaa 9248

<210> 22
 <211> 5722
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown Organism:Unknown

<400> 22
 ggacgcacag gcattccccg cgccctcca gccctcgccg cctcgccac cgctcccg 60
 cgccgcgctc cggtacacac aggatccctg ctgggcacca acagctccac catggggctg 120
 gcctggggac taggcgtcct gttcctgatg catgtgtgtg gcaccaaccg cattccagag 180
 tctggcgag acaacagcgt gtttgacatc ttgaactca cggggccgc ccgcaagggg 240
 tctgggcgc gactggtgaa gggccccgac cctccagcc cagctttccg catcgaggat 300
 gccaacctga tccccctgt gcctgatgac aagttccaag acctggtgga tgctgtgcg 360
 gcagaaaagg gtttcctcct tctggcatcc ctgaggcaga tgaagaagac ccggggcacg 420
 ctgctggccc tggagcggaa agaccactct ggccaggtct tcagcgtggt gtccaatggc 480
 aaggcgggca cctggacct cagcctgacc gtccaaggaa agcagcacgt ggtgtctgtg 540
 gaagaagctc tcctggcaac cgccagtg aagagcatca cctgtttgt gcaggaagac 600
 agggcccagc tgtacatcga ctgtgaaaag atggagaatg ctgagttgga cgtccccatc 660
 caaagcgtct tcaccagaga cctggccagc atcgccagac tccgcatcgc aaaggggggc 720
 gtcaatgaca atttccaggg ggtgctgcag aatgtgaggt ttgtctttgg aaccacacca 780
 gaagacatcc tcaggaacaa aggctgctcc agctctacca gtgtcctcct cacccttgac 840
 aacaacgtgg tgaatggtc cagccctgcc atccgcaacta actacattgg ccacaagaca 900
 aaggacttgc aagccatctg cgcatctcc tgtgatgagc tgtccagcat ggtcctggaa 960

ctcaggggcc tgcgcacccat tgtgaccacg ctgcaggaca gcatccgcaa agtgactgaa 1020
gagaacaaaag agttggccaa tgagctgagg cggcctcccc tatgctatca caacggagtt 1080
cagtacagaa ataacgagga atggactggt gatagctgca ctgagtgtca ctgtcagaac 1140
tcagttacca tctgcaaaaa ggtgtcctgc cccatcatgc cctgctccaa tgccacagtt 1200
cctgatggag aatgctgtcc togtgttgg cccagcgact ctgcgagca tggctggtct 1260
ccatggtccg agtggacctc ctgttctacg agctgtggca atggaattca gcagcgcggc 1320
cgctcctgcg atagcctcaa caaccgatgt gagggctcct cgggccagac acggacctgc 1380
cacattcagg agtgtgacaa aagatttaaa caggatggtg gctggagcca ctgggtccccg 1440
tggatcatctt gttctgtgac atgtggtgat ggtgtgatca caaggatccg gctctgcaac 1500
tctcccagcc cccagatgaa tgggaaaccc tgtgaaggcg aagcgcgga gaccaaagcc 1560
tgcaagaaag acgcctgccc catcaatgga ggctggggtc cttggtcacc atgggacatc 1620
tgttctgtca cctgtggagg aggggtacag aaacgtagtc gtctctgcaa caaccccgca 1680
ccccagtttg gaggcaagga ctgcgttggg gatgtaacag aaaaccagat ctgcaacaag 1740
caggactgtc caattgatgg atgcctgtcc aatccctgct ttgccggcgt gaagtgtact 1800
agctaccctg atggcagctg gaaatgtggt gcttgtcccc ctggttacag tggaaatggc 1860
atccagtgca cagatgttga tgagtgcaa gaagtgcctg atgcctgctt caaccacaat 1920
ggagagcacc ggtgtgagaa cacggacccc ggctacaact gcctgccctg cccccacgc 1980
ttcaccggct cacagccctt cggccagggt gtgaacatg ccacggccaa caaacagggt 2040
tgcaagcccc gtaaccctg cacggatggg acccagact gcaacaagaa cgccaagtgc 2100
aactacctgg gccactatag cgaccccatg taccgctgcg agtgcaagcc tggctacgct 2160
ggcaatggca tcatctgcg ggaggacaca gacctggatg gctggcccaa tgagaacctg 2220
gtgtgcgtgg ccaatgcgac ttaccactgc aaaaaggata attgcccac cttcccac 2280
tcagggcagg aagactatga caaggatgga attggtgatg cctgtgatga tgacgatgac 2340
aatgataaaa ttccagatga cagggacaac tgtccattcc attacaaccc agctcagtat 2400
gactatgaca gagatgatgt gggagaccgc tgtgacaact gtccctacaa ccacaaccca 2460
gatcaggcag acacagacaa caatggggaa ggagacgcct gtgctgcaga cattgatgga 2520
gacggtatcc tcaatgaacg ggacaactgc cagtaogtct acaatgtgga ccagagagac 2580
actgatatgg atggggttgg agatcagtgt gacaattgcc ccttggaaca caatccggat 2640
cagctggact ctgactcaga ccgcattgga gatacctgtg acaacaatca ggatattgat 2700
gaagatggcc accagaacaa tctggacaac tgtccctatg tgcccaatgc caaccaggct 2760
gaccatgaca aagatggcaa gggagatgcc tgtgaccacg atgatgacaa cgatggcatt 2820

cctgatgaca aggacaactg cagactcgtg cccaatcccg accagaagga ctctgacggc 2880
gatggctcag gtgatgcctg caaagatgat ttggaccatg acagtgtgcc agacatcgat 2940
gacatctgtc ctgagaatgt tgacatcagt gagaccgatt tccgccgatt ccagatgatt 3000

cctctggacc ccaaaggac atcccaaaat gaccctaact gggttgtacg ccatcagggc 3060
aaagaactcg tccagactgt caactgtgat cctggactcg ctgtagggtta tgatgagttt 3120
aatgctgtgg acttcagtgg caccttcttc atcaacaccg aaaggacga tgactatgct 3180
ggatttgtct ttggctacca gtccagcagc cgcttttatg ttgtgatgtg gaagcaagtc 3240
accagtcct actgggacac caacccacg agggctcagg gatactcggg cttttctgtg 3300
aaagttgtaa actccaccac agggcctggc gagcacctgc ggaacgccct gtggcacaca 3360
ggaaacaccc ctggccaggc ggcacccctg tggcatgacc ctcgtcacat aggctggaaa 3420
gatttcaccg cctacagatg gcgtctcagc cacaggccaa agacgggttt cattagagt 3480
gtgatgtatg aagggaagaa aatcatggct gactcaggac ccatctatga taaaacctat 3540
gctggtggta gactaggggt gtttgtcttc tctcaagaaa tgggtgttctt ctctgacctg 3600
aaatacgaat gtagagatcc ctaatcatca aattgttgat tgaaagactg atcataaacc 3660
aatgctggta ttgcaccttc tggaactatg ggcttgagaa aacccccagg atcacttctc 3720
cttggcttcc ttcttttctg tgcttgcac agtgtggact cctagaacgt gcgacctgcc 3780
tcaagaaaat gcagttttca aaaacagact catcagcatt cagcctccaa tgaataagac 3840
atcttccaag catataaaca attgctttgg ttctcttttg aaaaagcatc tacttgcttc 3900
agttgggaag gtgccattc cactctgcct ttgtcacaga gcaggggtgct attgtgaggc 3960
catctctgag cagtggactc aaaagcattt tcaggcatgt cagagaaggg aggactcact 4020
agaattagca aacaaaacca ccctgacatc ctcttcagg aacacgggga gcagaggcca 4080
aagcactaag gggagggcgc ataccgaga cgattgtatg aagaaaatat ggaggaactg 4140
ttacatgttc ggtactaagt cattttcagg ggattgaaag actattgctg gatttcatga 4200
tgctgactgg cgtagctga ttaacccatg taaataggca cttaaataga agcaggaaag 4260
ggagacaaag actggcttct ggacttcctc cctgatcccc acccttactc atcaccttgc 4320
agtggccaga attagggat cagaatcaaa ccagtgtgaa gcagtgtgct ctgccattgc 4380
ctggtcacat tgaaattggc ggcttcattc tagatgtagc ttgtgcagat gtagcaggaa 4440
aataggaaaa cctaccatct cagtgagcac cagctgcctc ccaaaggagg ggcagccgtg 4500
cttatatttt tatggttaca atggcacaaa attattatca acctaaacta aacattcctt 4560
ttctcttttt tccgtaatta ctaggtagtt ttctaattct ctcttttggg agtatgattt 4620
ttttaagtc ttacgatgt aaaatattta ttttttactt attctggaag atctggctga 4680

aggattattc atggaacagg aagaagcgta aagactatcc atgtcatctt tgttgagagt 4740
cttcgtgact gtaagattgt aaatacagat tatttattaa ctctgttctg cctggaaatt 4800
taggcttcat acggaaagtgt tttgagagca agtagttgac atttatcagc aaatctcttg 4860
caagaacagc acaaggaaaa tcagtctaata aagctgctct gcccttctg ctcagagtgg 4920
atgttatggg attccttttt tctctgtttt atcttttcaa gtggaattag ttggttatcc 4980
atttgcaaatt gtttttaaatt gcaaagaaag ccatgaggtc ttcaatactg ttttacccca 5040
tcccttctgc atatttccag ggagaaggaa agcatataca cttttttctt tcatttttcc 5100
aaaagagaaa aaaatgacaa aaggtgaaac ttacatacaa atattacctc atttgttgtg 5160
tgactgagta aagaattttt ggatcaagcg gaaagagttt aagtgtctaa caaacttaaa 5220
gctactgtag tacctaataaa gtcagtgttg tacatagcat aaaaactctg cagagaagta 5280
ttccaataa ggaaatagca ttgaaatggt aaatacaatt tctgaaagtt atgttttttt 5340
tctatcatct ggtataccat tgctttatit ttataaatta ttttctcatt gccattggaa 5400
tagaatattc agatttgtga gatatgctat ttaaataatt tatcaggaaa tactgcctgt 5460
agagttagta tttctatttt tatataatgt ttgcacactg aattgaagaa ttgttggttt 5520
tttctttttt ttgttttttt tttttttttt tttttttttg cttttgacct cccattttta 5580
ctatttgcca ataccttttt ctaggaatgt gctttttttt gtacacattt ttatccattt 5640
tacattctaa agcagtgtaa gttgtatatt actgtttctt atgtacaagg aacaacaata 5700
aatcatatgg aaatttatat tt 5722

<210> 23
<211> 42521
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<400> 23
gatcgttttc cagacatttt tgttctctgt tcatttcctt atcgatttca aaaagttatc 60
acaaatgacc ttctctatct gtctgcgtct cttttaactc tcaccgtttg ggacctttca 120
aatagttttt cgctatcaaa tctaaacatt agttgcgttg actcgacatt tgacccctca 180
ctatcatctc cagttctctt ttttgttaca ctttagcagt ggcagcagag agcaagtagg 240
tgagagccaaa gtgtgcgcca ttcatcgga aaaattgtgt ttttcatcaa attttgggca 300
atttactcgg gatttgcgtt aatttgaaaa caaaaattca aattcctgcc aattgttttg 360
tttgcttttt ttcttttttt ttgtctctc ccactctctc tcaaattgct ctttttttca 420
ttctaacata tcagccatct tcagagtgtg tcaactaacc ccatttttat tcaaggttag 480

tgatatagta tcctaactac agacgtcaca ccatgagggtt gctgctcttc tcggcagccc	540
ttcttctgtg ctccgtccca acgtgggcoct tctctctgtc atcattcttc ggaagcgatg	600
ttgcacaagt aagcaagctc tcctatacct agaatcttgt aaattgaaaa ctctaatttc	660
cagaagccat accttcatcc aaactcccca ccggagcgtg acccggcgag ttccagaatg	720
aagagacagg catatcaagt gtacgttgat ggagatgttt ccgttactgt tgacaagtct	780
ggacaaaagg aaaccggcaa ctggggacca tgggtgcccg agaacgagtg ctcacgttcg	840
tgtggtggag gagttcaact cgagaagaga cagtgcaggt tcgtggactt ttcatttttt	900
agggaatttc ctagacgttc taaaagctta ttttcaaaaa ttttggtttc ctgatcttca	960
tgcttttatg aacgtggtga aagatcaacc taggctagcc tgtgacatac attttttgaa	1020
gcagatccaa ctttatcaag agccatcgaa ttctcgtttt aaagtgtttt ttttttctga	1080
taactttttt ctaatagctt taccattttt tatgtcaaga ctgaaagcaa tgaatcacia	1140
gaggctatct acgtttgttt ttgaagctct gtaggaatca tcttaaaaaa ttaagtaaag	1200
taatggagat gaaattctaa ttttttaaaa tcataatcat tactttctgt attatcttca	1260
agttcaaact tttcaaacgg ttattctcaa gaaactcaca tagaatttta acaatttcct	1320
ctatctattt cttgcaagca acccaccgaa ctcaaactct atccaaacta aacttttagt	1380
ggtgactgca ctggagcttc agtccgctac atctcgtgta acttgaacgc atgcgagtct	1440
ggtactgatt tccgtgctga gcaatgctcc aaattcaaog atgaggctct tgatggaaac	1500
taccacaagt ggactccata caagggaaag aacaagtaaag ttaactttct tcaagatgtt	1560
tttctaattt tcgagttttc aggtgcgagc tcgtctgtaa gccagaatct ggaaacttct	1620
actacaagtg ggctgataag gttgttgatg gaaccaagtg cgactccaag agcaacgata	1680
tctgtgttga tggggaatgt cttccagttg gatgtgacgg aaagcttgga tcttgtaagt	1740
ttaaaattta attcaaaatc ttcatttcat gccgaatatt tcagctotca aattcgacaa	1800
gtgcggaaag tgcgatggag atggttctac ctgcaagact attgaaggac gtttcgatga	1860
gcgcaatctc tctccaggat accatgatat tatcaaactt ccagaaggag ccaccaacat	1920
taagattcag gaagccagaa agagcaccaa caacttggct ctgaagaacg gttccgatca	1980
cttttatttg aatggaaatg gattgatcca agttgagaag gaggttgaag tcggaggaac	2040
tatcttcgtt tacgatgacg ctgaaccaga aactctcagt gctcaaggac cactctccga	2100
ggagctcacc gttgctcttc tcttcagaaa gggaagccgt gatactgcta tcaagtaoga	2160
gttctctatt ccacttgagg aggaagtga ctacatgtac aagtttgaca actggactcc	2220
gtgctctgta tcatgcggaagg ggggtgttca aaccctgaat ctctactgta ttgatggaaa	2280
gaacaaggga cgcgttgagg atgatctctg cgaggagaac aatgccacaa agccagagtt	2340

cgaaaagagc	tgtgaaactg	ttgactgtga	agccgaatgg	ttcactggag	actgggaatc	2400
ttgctcatcc	acctgcggag	atcaaggaca	gcaataccgt	gtcgtctact	gccatcaagt	2460
attcgctaac	ggacgtcgtg	ttaccgttga	ggatggaaac	tgcaccgttg	agagaccacc	2520
agtaaagcag	acttgcaatc	ggtaagttga	ttttataaat	gcataaacia	ctctgtgaat	2580
ctatttgttt	atgcgatgct	atccatatat	attaccagat	ggtgttggtg	ccaaaaactt	2640
ataaacaatt	atttttctct	tgcagttttg	cctgcccaga	gtggcaagct	ggtccgtggt	2700
cggcttgctc	agagaagtgt	ggagacgcct	tccaatacag	atcggtgacc	tgccgcagtg	2760
agaaggaagg	agaagaggga	aaactcttgg	ccgctgatgc	ttgccagct	gatgagcaag	2820
agaagttcga	cacagagaga	acttgcaatt	tgggaccatg	cgagggactt	acatttgtca	2880
ctggagaatg	gaacttggtt	agattttgca	aaatatgggg	acctggggaa	aagcatacta	2940
aataagatca	actttatgaa	acaataaatt	tttagtgcac	ccgctgcaac	gatactgagg	3000
agactcgtga	agtcacctgc	aaggactccc	aaggaagagc	ctatccactc	gagaagtgtt	3060
tggttgataa	ctccaccgag	attccaactg	atactaggtg	agtcattcca	gatatgacat	3120
tgaacttgga	ttaatttttt	tcttccagat	catgcgccac	ccaaccacca	tgtgagtacg	3180
agtggaaccgt	cagtgagtgg	agcaagtgtg	ccaccgaatg	cggacacgga	cacaagactc	3240
gtcgtgttat	ctgtgccatc	cacaaaaacg	gaggactcga	ggttgttgat	gaaggacact	3300
gtcaagctga	gaagccagaa	ggaaagacta	actgcaccaa	tgaggagaag	tgtactggaa	3360
catggtacac	atcttcatgg	tccgagtgtg	ccgctgaatg	tggtggtgga	tccaagatc	3420
gtgtcgtgtg	ttgcttgaac	tacgataaga	agccagttcc	agaatggtgc	gacgaagccg	3480
tcaagccatc	tgagaaacia	gattgtaacg	ttgatgactg	cccaacttgc	gttgactctg	3540
agttcggatg	ctgccagat	aactctactt	ttgctaccgg	agaattcaac	ttcggatgct	3600
ctaactgctc	ggaaacagaa	ttcggatgct	gtgctgacia	tgttaccgtt	gccactggac	3660
ctaactocaa	gggatgcgaa	gaattcgttg	agtctccact	taaccttgaa	gctgatgttg	3720
ccaatgctga	cgctgaagct	tcaggagatg	ctccagaact	ctgcagcgtc	acaaacgaga	3780
acggagaagc	tgttgatgtt	gagtgtgcc	cattgctcc	aatcactgct	cttcttggag	3840
atggggaaact	tatcggaaat	gatactgatg	cttccaatga	gaccatacac	tgtctgaaga	3900
ccgaattcgg	atgctgtcca	gattggtaca	ccgccgcctc	tggaaaggg	aacgaaggat	3960
gcccatcggt	cactcttgga	ggatgtaacg	agactcaatt	cggatgttgt	cacgatgatg	4020
tcactcttgc	togtggagcc	aaccttgaag	gatgcggaga	gccatcttgc	gctgcttccc	4080
tctatggatg	ctgtaaagat	cgtaagacia	ttgccttcgg	accacactat	tctggatgtg	4140
agcgatcatc	cttcccattg	gagcttagcg	acttcggatg	ctgccagat	ggtgagactg	4200

ctgctcttgg aaagaatgga accggatgcg gagagaactg cttgaccacc aagttcggat 4260
gctgccctga tggaaagacc accgccaaagg ggtcccacaa cgagggatgc ggatgcgagt 4320
tcgccaata cgatgctgc ccagacggaa aatcagttgc caagggagcc ggattttacg 4380
gatgcccaga aagctgcgcc cagagccagt tcggatgctg cccagacgga aagactcgtg 4440
ctcgcggaga gaacaaggaa ggatgtccat gccagtacac ccgttacgga tgctgccag 4500
atggggagac tactgctctt ggaccacgca atgatggatg tgataactgc cgctacgcca 4560
agcacggatg ttgccagat ggagagacca aggtcttgg accagatgga gccggatgcc 4620
caccaactac cagccacca ttcctcatgg gaggaactgt tgccccacat aaaatcgccg 4680
cctgtaatca gacacaagaa agtggaaaccg tctgcggagc cggatacaag cttgtaagta 4740
attaacctca tgaaaaagaa ttggagcaac acatttcatg tataaatatt tcaatttcag 4800
gcatggcatt atgataccac tgagggacgt tgcaaccagt tctggtacgg aggatgcggt 4860
ggaaatgaca acaactttgc tagccaggat atgtgcgaga ctatctgcgt cgaaccacca 4920
ggcaaggga gatgttacct gccacgtgtt gatggaccac tccggtgtga ccaacttcag 4980
ccaagatact attatgatca ttccaagaag cactgtgtgg ccttctggtg gagaggatgt 5040
ctcggaatg ccaacaactt caactcttcc gaagaatgct ccatgttctg taaggacgtt 5100
ggaccgtacg atgctccaac caccgctgct ccaccaccac caccacagca aaatgctcag 5160
caataccttc caactccaga agttcaacag attgagattc aatctgctga gcaacctcaa 5220
ccacaacagc cacaacaaca gcaacagcaa caacagcaac aaccacagca accacgtcaa 5280
tcaatggaag acatctgcag atcccgccaa gacgccggac catgcgagac ttactcogat 5340
caatggttct acaacgcttt cagccaagaa tgcgaaacct tcaacttatgg aggatgtgga 5400
ggaaatctca atcgtttccg cagcaaggat gaatgcgagc agcgttgttt cttcgttcac 5460
ggagctcagc catccgctgc ccggcaggaa caagctcagc cagcagctca accagctcaa 5520
ccagctcagc caagtaacat cgtctctcca ccacaacagt cagctagtcc agttgtggtt 5580
ccatgtaagt tctttagaat gcatttatatt cttactataa gtttctataa gttcgcagt 5640
gaagcatccc catttcagcg aacagcaaac aacgcgatgc ttgccacctc aacgttgacc 5700
aaggacgttg taagggggct tttgactcct ggtactacga agttgccacc ggatcctgcg 5760
tcacattcaa gtacaccgga tgcggaggaa acgccaacag atttgctagc aaggatcagt 5820
gcgagtcact ctgtgtgaag ccagcttctg aagctgcttc agccggaatt ggtatgcttt 5880
gagttataga gaatgttcac tatttttggt aaatgtttga gtaaatgaga aactggctca 5940
gtttgaaaat gtttgacca tgtttcaaaa tagtttttga gttgaatagt tgaggccatg 6000
aaaatcttaa ttacactcca gaagtacatt ttaaacatt tttgagaatt aggtcttcaa 6060

aaaaaggttt aatattgagg tttcaaatta gaaatattaa tatakcgggga tttgggttta	6120
aaactgattt ttaaaatott atttttgaag tttcgctttg atattcgtgc aaaaaaaaaa	6180
ccaacttttt cagacggtgc agctggaatc aactcagttt gtgacgaagc caaggacacc	6240
ggaccgtgca ccaactttgt cacgaaatgg tactacaaca aagccgacgg aacctgcaac	6300
cgattccatt acggtggatg ccaaggaacc aacaatcgat tcgacaacga gcaacagtgc	6360
aaggctgctt gtcaaaatca taaggatgct tgtcaacttc caaaggttca aggaccatgc	6420
tctggaaagc attcctatta ttactacaac actgccagtc atcaatgcga gacgttcact	6480
tatggtggct gcctcggaat tactaacaga ttogctacca ttgaggagtg tcaagcgaga	6540
tgcccagata agttctaagt taatagtgat atatgctttg tttccccttt attccttgac	6600
aattttcaaa tactttttgc ataattacct tatttctatt cctttctgtt tcccattttc	6660
ctccacccgc tacaaattgt ttcccgact ctctcctttc tcactttccc gtccgaaggg	6720
acacggcaat gctgcctaaa tgaactgcct aataatattt atgaattttc caattttcta	6780
aaaaaaaaaca atttctctcaa aaaattccct gccgttcgc cactgctttc ttcaccatt	6840
gttgcgctat tttttttaa taaatgaata aagctgaaat agttaacagt ttctgaaatt	6900
gcatgtaagt ttgtagtgt tcaagtgtgtt tgcgtgaaa gttttttttt acctgcatga	6960
tttctgaac tgcatgaaac tgttcttatt acgttttaga tttgctgaag tgtgctagaa	7020
gtgtgatttt gtttcagaag acgaccagac tacaacaaca tcacaaccag aagagctccc	7080
aagtttgcca cttgttcaag aagatcctca gccacgaccg gcattttcat tgaagtaagc	7140
acgtgtagtc caagtgccta cttctcgtat gacaaaaaa tttaatataa ggtttccaag	7200
tattaaggaa tcagtagcat gtaaattgtg tggattgttc tcctgggttg atgggttttt	7260
ttctcactca caatcagata tggagtagct tatatgggaa tttatttgag aaatagaata	7320
tgtcataaca tccaaattta attattaaaa agttgtgaag tttctcatta tgtatataaa	7380
attcgccttt caaataagaa caaaaattaa ctgtatgaaa gagctgaatt caatttgaaa	7440
ttgagaaaat aactggttca aaaagaagaa aaacgttgga aaatctagac gtaaattctat	7500
ggattttctt ttcaggtcgg ggaaatttcg acgattttta tttttcaaa aatcattcac	7560
aaatatacac caaaaattat ttttaccata ataaaatacg gaatttcact ggattactgt	7620
agtattcatg taaggttact gtattgttac tctagggata ctacaagaat atttttgcaa	7680
agttgtaaga agtatagaga ttactgtaga ttgaaaatct agacaaaaat cattttccgt	7740
aataatctgt ggggatagaa tgttgaaggc acaaggctta taaagcacca tgggaaaaaa	7800
ttttaacagt gattttttta agcatatcct ctttcccagg aaatccactt ttcaaataa	7860
ttcccactaa actctttaag acaatccttc gcccatagtc gtgcgcgtga tgctccattt	7920

gcacgttccg tatccgcccc tcaccatact cctgattccg aagaggaacg agttgactgt	7980
tatgctgttc cagatccagg atcttgccgg taataaatct cacctatcca ttacaacat	8040
taccgtctta atgattcaga gactaccgtc ttgtttggca ctactctgcc acgagtaact	8100
catgccgtca attctactat ggtggatgtg ctgggaatac gaatcgcttc gagacccggg	8160
ataaatgtga aacatcgtgt gttgctaaga ttgaagaacg cgtggaaagt gtgtcagaag	8220
cttcaaaatc tctggaagag gttagactaa cggatccaag gatggattct cactttggat	8280
atcatgatcc agaagttgat caaatcgaag aagaagctga atatgtcatt gttgataccg	8340
gagctctacc tgaattatgc atgcttcag aacaaagagg gtcttggtat gataacattt	8400
tgagatggag gtaagtcaaa tcaagaatag aaaattcgaa aatccgaaaa actttataat	8460
tataactaaaa gcaaaatctt aaaatctttc agattcgact ctgaaaagtc tcaatgtgta	8520
accttcatgt attctggatg taatccaaat gcaaatcact tcactagtca ggtagtttc	8580
attattttgt gtcctttcgt ggaactggcc ccttggtttc taacttgatc ttctccttcc	8640
gaatacccaa tttgagcacc gctggctcac tttttcgacg gtgacgttcc tcaattctag	8700
cggcctctgt attttctgag cactcttgag caacagtttc ctactggaa atgtttgttt	8760
ttcaagaggg agtgagagag agaaataaac gtacaatttt tgaagccgca catgatttgt	8820
tagaagtcga tgccgttctg cagtatcctt catgtttcgt agttgtttct gtagtaattt	8880
ttatggatta ggaactaaga aatcatcact cactgcggta gttgcatttt tgtgcatgca	8940
tcttcccata aaagcaacaa atgcaacaac tgatagagcc gccacacaaa ttgcaataat	9000
tcgaagtcga tttctaattc ctttctttac tttttgtcta tgctcagctg ctttttcgat	9060
gtgcttcttc ttgctggggt cgagctcgca atgaggaaat ggctcgatga gtggaccgtg	9120
ttttttgcat tgttcacaac ggcgctccagt gtatttgtct gggcagtcac acgaaagagt	9180
gcggtttttg aaatctgaaa attttaaatt taagaacagg atctatagca gttttgcccc	9240
tcacagtcct atgtctatat taaaaaaaaat tatcggacat taaaaaaaaat gttttctcat	9300
tttttcagta tttctataaa aactgcattc gcatttaatc ataactttta atcgttaaaa	9360
acttagtcct taagtacctg gggatccgta aacacagaca atttcatcac aataatcgcc	9420
ttcaaatccc acatcacaga tgcattctcc atttctcaaa aacctctoga cacatttact	9480
tgtatatttg cattcacttc caaaatatga gccacacat tcacatcggg ccccttcca	9540
ttctcctttg tttccgact gaaataattc aatagatttt ggaagtttag ggcctcaaaa	9600
atataccttt tccgctggcc gatagtcaca catttcacct ttccatccga cttcgcaaat	9660
gcacggctca ctgaatagaa ggctttccgg gtcgaagcgg aatccgaccg agagtcogtg	9720
aactgtaaat tgaaaatttg taattccaaa aaaaaacag cttttgcaaa aatcgtccaa	9780

aagaatttta	gagttagaca	ttatttttct	caaaaagttc	aaagttgtat	cagttttaaa	9840
ataaaaatatt	taataggatt	gtagagcttg	ttagaaaaaa	taaaagctac	ttgaaaaaag	9900
aaaggtatcc	aaaaaggtat	tgagatagtt	tcaagcaact	ctatttgtaa	actgtcagat	9960
ttttaagttc	tacaaatctc	ttataacatc	gctacatcta	ctatcaaact	ttgaaaaaaa	10020
accataccac	attcaaaaatg	ttcacattta	tctccagttc	gtcccttgat	acaatgacaa	10080
atccctccag	catagattcc	tccattacga	cattcggctc	tcggatcatc	cagagcaaca	10140
ttgtctagaa	tacttctctt	ttgaagaata	cgatgcacgt	cgctcaatat	attttcatct	10200
agatctagt	agtcactctg	tgattgtgct	tttgttgttg	ataaaaatag	gaagagtaaa	10260
gtggaaaatt	gtaaacagta	catagcgtta	gatactgaca	agtctactat	caattgat	10320
atttattg	tcttgaaaag	ggtatcaatg	agagaaatag	ggagatgggt	aaaatgcatt	10380
tataagagaa	tacaaaagat	gacgtaattg	attaatcaga	gatcagttga	aaatactttt	10440
aagtatcaat	tattatctgt	gaagacagtc	acgtgactct	gactcgaact	caatttgc	10500
gttgatagtt	ccaatgttaa	agaaagtctt	tgggttttct	ccagatgaaa	caa	10560
tggaatatta	aacgtgactc	ttctctgaca	aggtttgagt	ccgtcatcac	aatcgtgata	10620
gatattaagt	tttgatcaa	tagtcatcac	ttcggaagt	tgtccggtaa	gaaggaattg	10680
accaagagag	tctgtagttc	cttcggcaag	aagatcgta	agatccggtc	ctgaaaaaaa	10740
cttttatttt	gaaaaatttc	aatgagttgc	ttcatgttag	aatttggaat	ttttaagat	10800
gttagcaatt	ggtatttaaa	tgttcaagct	aacgtaatta	gagttattca	aacaagcttt	10860
atataaaaa	tttgtgtaag	attcggctca	attagaacat	caatttttaa	cgcagctgat	10920
aaaaaaacttt	aatttcaagc	ttcacataat	tctaacttacc	ggtatcatca	tcgtagagct	10980
tcaccttcgt	gttagccagt	ggtttgtctc	cacacatcag	aacaccctta	actccagctg	11040
attgggtgaa	tacagcttcg	gagccaattg	cacaaagtat	gaaaagtgat	gaaatgcacg	11100
cgagtcgtga	cattattttt	gtctgaaaat	acaaacactg	actgatctga	ccttcac	11160
agaaactctc	ttatagcaca	gttggttaga	aaaagatacg	gagaggagaa	gtgggaaatc	11220
gaattgacca	aacaaaagaa	ctggttttca	cttgaaatag	aagacgatga	aagatataca	11280
acagagaaga	tcggaagtga	ttcatctgga	gaagaaaatt	gagaggagca	aattcttgta	11340
ttttccactt	atttatatac	ccaatagaat	tcacctgatt	ctttccgatt	tgtgtacatt	11400
tcgctgacta	acgtgtgctt	cttcggtttt	gtcattttct	attgttcatt	gaaaataaac	11460
agaacaaagc	aatcataagg	tcgaaaatcc	catttagaga	tcaagaggtg	tacctttaat	11520
tgtgcggcat	ggcatagttt	tatcttgctg	aactctcacc	aattgatgag	tatgtcagta	11580
gaatggattc	catccgatcg	ttgctccacg	gtgatctctt	cgcgcgctt	ttcatccacc	11640

atacccggttg	tgtatggctg	gcaactgtga	acagcgcctc	agtggaatgt	ttagtttgat	11700
atacagttta	aaataatttt	ctaaactaaa	gaaatcagtt	tttgaaacca	gtcttgtagg	11760
catgtcgggc	gcaggcacgc	taacgtgaaa	aatagaatth	cgagtgggta	actatthttat	11820
tttcaattaa	aatacaatca	actacacaat	gaatgacccg	gataaatgaa	atacaaatac	11880
aagaatthta	aaaaaacatg	gaaatthtaa	cttttccatc	atctccctth	gctggaatat	11940
tatattthcat	tcgataagct	tccaattcgg	cttttctctg	atcggatcgt	acactgtgtc	12000
tctcatccat	ctcttggtga	gctgtcattc	tcttctcatt	ccatttctga	gcttttgctt	12060
ttttgtggat	tctgttgat	tctttgcaat	tgcagcagca	ataacagaag	caggcaatga	12120
gaattacagc	aatgattcca	gcgcagatgg	caataacgat	tgcggcggct	gatgtgctca	12180
cccagcagac	attgtatttg	acatgcttga	tattacagtc	tggatagtac	cagtcgaatg	12240
gcatacatct	tttcgthttt	ccaccacacc	agaagcaatt	ctgaaaaaat	gtgtthtttga	12300
aattthcaat	atgtthgctt	ataaaattga	atthtaattth	tcaaacagtg	tttcagaaac	12360
tcaacttctg	aaattaggaa	agtattctca	attgagagct	gtthttgtat	taaaagthtc	12420
agthttagaac	tacagggtgtg	aaaaaatctg	agcaagtga	caccaacgta	ttgcatcaca	12480
gtttacgcgt	caatttattc	gagtgttcat	tgtagagaaa	gttaggtcac	cttcagaaa	12540
attaagaaac	ttgtthcaga	catthttgct	ctthtagagg	aathththth	tagaggaaac	12600
acgcaagtht	ctthgaaaa	aaaaacaaaa	tataththth	atccacttac	cgagcccttg	12660
ccaacacatg	tttcacaagt	gttcaaatcg	ttcgatccaa	ttctacagta	ttcttgthtc	12720
tctgaccatg	tcattgttatc	cgcacatact	gataactagaa	caattgagaa	aaagagtagt	12780
aatcggtgaa	tcattcgttct	gaaaaatcaa	taaatagtaa	caacttgagc	aagtctcgta	12840
actgagcgac	aaaaccaaag	tagtaatgaa	atagaaagat	agaaaggtaa	actcaaaggg	12900
ctcgcgtgtg	tttgtctatc	gagtgtccat	gagththtagg	agtagcgaca	gaaataagth	12960
ggcagaagaa	gaacatacga	actatgtcgg	gctacaagat	tcttggtgtt	actthtttgaa	13020
aaagaaaatg	catttgagaa	aatgcaaatt	ttcggcagaa	atcgaatgga	gtthtagagca	13080
gaatggtaaa	aataaagggtg	gatcagcaaa	aatagttgaa	caaatathth	gtagattthca	13140
tgaaagataa	caaaaaaaa	taaatacaga	aaacaatata	tgacgtattt	ttcaatcatt	13200
gtthttgtat	agtgc aaatt	cagtagttgt	acctgttata	agtacagcga	agttatacat	13260
tttagagtgg	gtcttggtcac	gatccatatt	ttttgaacgc	aatatttgaa	atccaaaaaa	13320
aaataaagaa	actaggcgcc	aagaagctat	agtagctata	cgcataaatt	gtgaataacct	13380
tgaattacat	taaattccaa	caaaatagga	aatcatata	aaaacgaagt	tagttgtcaa	13440
ttcaaaaacg	ttthtaaaat	tgthcataag	cgcagagctg	tccccctcag	ttthcgtthta	13500

ttcagctttt ctctctctct ctattctcta tcgtcaccta tatttcatag tccccttatac	13560
caaaagtgga agtgaatgag gatggaaata tgataccgca tgcttcaaaa aaatttgctt	13620
atgagaaacc aacatttgaa aatttccagg aaacttgtga acgagcctgt ggtaaagtga	13680
gaaatgtggc agtgtgagag ttgccggccg aacacggaga ttgccaaactt gcgattccca	13740
ggtatgtact gttgacacat ttacaaaatg ggatgggaag tggtcggtga tcaggtggaa	13800
atgttgatgg caaggtttta aatagatgta gtaactgaaa acaaaatgac agatgtacat	13860
acataaatta ggattaaaac aaaaatacta tgcggagtcg ggtgactaat ttttctggaa	13920
attccagaat ttgaaaatgt ttttctctgt ttgaaagtag aacgggacct tttacaaaat	13980
aggctgaggt aggtaggctg tagaaaagtc ctttggtgtc tttgtaattt ttgttttcaa	14040
aaaatcactt gtaagcacat gaaaatcaca tgaataatga tgtaaaattt agaaaattag	14100
tataaagaag atttacattt taataataat aattccagat ggtaccatga cccaaaaaca	14160
tccaatgtc aaatgatgat gtggactgga tgcggaggaa atggaaacgc gttctcttca	14220
aaagcagact gtgaatctct ttgccgagtt gagacattat ggtccaacaa cactgacttc	14280
tgtacattgg aacgatcggc cgggtccatgt acagattcta tttcaatgtg gtatttcgat	14340
tcaactcatc tcgattgtaa gccattcact tatggagggt gccgtggaaa tcagaatcga	14400
ttcgtttagca aagagcaatg tcagcagagc tgccgtcctg gagacacaaa atctgaggat	14460
atctgcacac tccgcccaga gccgggaccg tgtcggctgg gactcgagaa atacttttac	14520
gaccgggtga tccaatcctg tcatatgttc cattatggag gttgtgaggg aaatgcaaac	14580
cggttcgatt cagagttgga ctgcttccga cgatgctcga gtgtcaaggt tgaagcaagt	14640
gaaagcgaga gagtgggaca gctgacgtct gcatccacgc cagttattta tattgttaac	14700
aaaacagcga tttttgttgg aaatactgta agttattaat ttttaattcga agatttctta	14760
atattttaaac tgggtcccatg agagtttggg tcattttccg acaatagact gcaaaattga	14820
taacttttca tgaacacttt agccgatttt agctagtttt gtttattaaa atttggtaat	14880
tcaaaataaa aaccttacgc cactccactt ttgaataact gtcaaataca ttttttcagt	14940
tccgaatccg atgcaacagt tacggagtgc ttccaataac atggtacaag aacggaggtc	15000
tcctccagtt cggctcgcga atcactgaag agaagatga cactttggaa attgtggatg	15060
ctttaactgc tgacgccggt gtctacactt gcattgccgg ccaggatagt acaatgagcg	15120
agggagtcga ggttgatgatc aagagacttc ctggtcacag aactacatct cgtccaatgc	15180
tgacaccatc caagaacttc tccttgggaa cccacccgac accatctcca tctacagttt	15240
ctacaacacc cttccgaatc tatacgcttg gatctgctcc atctgatgct cgtgtaagcc	15300
gcccagacaag caattcctgt atggatgtgg gtaacgcgag cacgtgcgat ttgatcgtga	15360

agaacggttt gtgcgggaag aagcgatatg gaacattctg ctgtcacact tgcacccggg 15420
ttcataatatt taaatttttaa gtttggtattt ttgatttca aatttttcatt aatcttttaa 15480
tgttttctcc ttcataatat ctccattgcg agatctcttt ttcccttctc ttcctatact 15540
ttcccctcag acaattggct aattactcgt tcgttccagt .aaataaatat gaatttattt 15600
cttcttccta tactttggta tacataatca tggcatgaaa tacaagacaa aaaaaacaag 15660
aaaaaacaat ccacttgaaa tccattcagg tgtgaactaa catcttactc tattaacttc 15720
gtgccattac ttccacttat tttgcctatt cactaatgaa gtctctgaga attattttct 15780
gtctaactct gctgattgca agcttcccag ctccagcggag ccgcccgaata cagaaatttg 15840
tacgccttcc tagtgggttc acgtttcctg cggatgcggc gagtaatttt caaagagatg 15900
cgtatattcc agcgacggta aattttcgtt ttttgttaaa tgaatttcag gcttcaaatt 15960
attttctagg acaaaaattt aaagtaggct tgcgcatact catttccctg ccttacctgc 16020
caacaggcta gcttttgagg agaaatcaaa agtttggtgt ctgtaaatct aagctttccg 16080
aagcgtccga aagtttttg gaatccgcta tacactttaa gattgataaa tatttgaatc 16140
aggtttattt tgcactatta aggcgtgtag gcactaggcc ggcaaagctc gcctacgggg 16200
agccttaca tcaagtatta ttcatgaagg tcttgatttg gttacagaat tccatctaaa 16260
attacttata caaaaacatg aaaaatttca gtttgccccg ccactctgaga agattcttca 16320
agctccacca cgctatttaa ctggagaaca caatccagct tatggtaggc ccaatttttt 16380
atctgatttt cttaaatttaa cttcaagctc acaataccga tgtgcaagga atgaactacg 16440
ctgagtacaa gcaagcgatg gccccacaac cacatccagt cgatgcttat tctccaccac 16500
ctcctgcacc aatggtccca ccggttactg tagttgaacc acctgcaatg ccgtatgaaa 16560
tgactacgat tgcactctgtt ggaccactta ctactccgc atcagtcggc ttgaagaagg 16620
gaaagtttgt gatttttagtt aattgatctt tcaagtaatt ggatacaatt tccagcatcg 16680
gaggaattgc tcaaaacttg aacgacaggt acaccagctt aacaccagaa gctcaacgtg 16740
ctcagaaagg tcatacctat acggctctgg gcggtggaca attctatcaa agtttacttg 16800
gaggggtaag atgcaagggt agaacttaca aactcaattc attttacaga aaggaggccc 16860
cggaggattc tccccactct cgttctttct aaacggcggc ctaggaggta ctggtggtgg 16920
tggttaacaat ggattcttcg ttccggtgcc tgtagtcatt ccgcctccac cgcaccgcc 16980
accaggacca aactgtttca cgaaccgctc gggattcctt tgctgtaacg tgacacttga 17040
gaaaactatg gaagacgcgt acctggccgc aaaagcagat ggtgcatcac tgtgcaatgt 17100
acagaaaatg gcaactgcag tgcaagcggg ggggtttatg gatttcattt tataatgtaa 17160
tgtgctcttc cctagaattg aataagctta caacttgaat taogacttga attacaactt 17220

gaataagctt aaaatatcca ccaaatttca gcaagccgaa aaaaaattcg gaacaacttt 17280
cgaatcagtc gctgctcatt cggacttcgt cgcaaaaatt aattttgccg gtgacctgaa 17340
ctgtaaaata gaaatcgatg ggaaattcat actagcgtac gcaactccaa tcgccgagca 17400
agaggtgaac attgtcgatg ctagctcatt cttctcggga gctgctgata aggatttgga 17460
tggtgtcaat ggtaccaagc ccacctacat tgtctacggg cccattaaat aatggagggt 17520
ctagctttta agattttctgt atattaaagc tgaaatgtga attaatgtt tatttgccaa 17580
tcacaataaa gttggaaata tcatttgaat agttcgaaaag ttttcaatcg gaatgggaga 17640
aaattcgaaa atttaggtgg aggtgaaaag ttgatgaagt aacacaatta actgtgctcg 17700
aatcctgaat agaaggagaa aagagcctat aaacagattt tcaatttaca catattacac 17760
aacaattcag gaagaagaca gtagttgcaa aagaaaatac gtagaaaaaa gagtgaagga 17820
ctggcgggat gtcagtttg atgtacaaat agaactcctg aagcataaga aacagaagaa 17880
tcgaccgatg atcgaacctg aaatggattt attgttgatt gaaaaatatt aagcaattct 17940
gaatctctac cttgtttgat tgtgtgtaat gcaagaatct aaactcgtga gtgtgattgt 18000
tactgatccg gaaatgttcg gctgcttgca gcattatcaa tatcggatta cgcccacaaa 18060
tcgtgtttctg ggtctttttg aggtagtcac taaaagctgc cggattaago gtctcaattg 18120
cgctcattcc ctgcttatcc atattggta tctgctcata aatcggaata gaactatgac 18180
gatcgtacgg agaaaagctg aagcgttctc cccaatggca aaagtccgaa gagatcacia 18240
acaagtttct tggatcctcc atgtaatgag caaaaatatt tccatacgtt tgctgcctag 18300
atcctggtaa agatccaaca agtaccggaa caatggtgta acgttttgaa ccataacct 18360
ttgcaataaa tgggagttgc atttcaatac tatgctctga ttcttcatct cggcgatcca 18420
tcaaatcgaa atgacgagtg gcacgaagct cctcgttaac tgcaaagggc aatgttgtaa 18480
aagatgtact aagagtgcaa tagattactt ttgtgatcaa cgatcaagtc gccgagtgga 18540
gttctgtact tgctgcatgt ggttatagca catccattta gagcaacaac gtgagatggg 18600
ccaagaatga agactctttc actgaaagtt attgagtaag ccctggtgcc aagtacaaat 18660
ttcaacaact cacactgctg atgaaacaac ttgtttgaaa gcatatgcag ctgtttctcc 18720
acaatacgaa tatcccgcat gtctgaaagt tatcagaaaa taaatattaa atgcatttag 18780
agtattacgg tgaaatcaac gctcgagccg ttccaatccg tggaccggcg ttgtcaagcc 18840
attttgtgag ttgccgatca agatctcgct ggttggcggt gtaccatgat ccggcatgtg 18900
aggcagatct cgtgtgctcg ccgaatccgt ttagtgacat tttaaattca gatggtctga 18960
atattaaagt ttgataaat tgttgatac gacttgatta atatgtttag tagggttttc 19020
aactactgtg tgtttcccaa atagtcaaca ttgaaaaatg gaaaagtttg aatttaaata 19080

ttcaaaataat	tttaattaat	taatattaaa	attcacaaata	cagtgtaca	tcacacttaa	19140
ttcaagatgt	tctaaaaata	tgagccatcg	ggctagctct	acttcacgaa	ttcgaatcaa	19200
gtccggggaa	ctggctcgaa	agaaaataaa	fttttaattt	ggtttatgtc	cgaaatagaa	19260
atgggaatct	ggtttttcat	tctgaataat	ttccgagaaa	cacttacaaa	ataaaattca	19320
gatatcttgc	aaaaggaagg	ccaaatgtcc	tgagaaatag	agcacgagag	ttttgaaata	19380
cctgcaacaa	caggatttgc	ttctattttg	ttttttgaac	tgaattttta	actattatct	19440
attctgaaaa	cattttttgt	ccaaaaaaaa	tcaagaacaa	tttagagcaa	aatgtggcaa	19500
tccgaaaatg	ttgatgcaac	aaaaaagtgt	tttttttttc	attgaatttc	agttttgaaa	19560
actgatttct	ttccaaaaaa	aaaacgaagg	aaaattttga	gaaaaaagtg	aaaatccaaa	19620
aatgctgatt	ttggtttttt	tttcaaaaaa	aaagcatttt	gcaaagtgtg	tgcttttttt	19680
cgaaagtttc	agaaccttga	gacaaaaaac	caaaattgtg	ttcccagagt	aagcccgcca	19740
cgtggacatg	gtcagacgaa	tcttgttcgt	gttcgcagcc	aattttcatt	tttgctgaac	19800
gcataattgt	tcaaagaaga	ttcgggtctaa	aaagacgaaa	ttgaaataga	ttgtggaatc	19860
ctttgaaatt	ttcttttgac	aaaaggtcac	cgttattcaa	aaattgagat	ggtctcgtga	19920
ctaaaattaa	acaatcaaga	taatcatgat	tgtgggcctg	ttttaaaata	cacttttcaa	19980
aaacgaaatg	taggctccaa	tccaaaactgc	gcatcaagac	caagaatata	aaatttttta	20040
actcgggaga	cgtagagaaa	ctttgaatat	taaacatcgc	ogtcaagttt	ccgtcagagc	20100
gcgctgaaa	tttttttagag	gcttctttca	aaaagctacc	catacaaata	atcataagaa	20160
aaacgtttta	aaactttgca	ttccacccaa	aaatgtctga	aattaccogt	aaaaagaatg	20220
tgtgaaggga	gtgatttgag	ggttctgtca	aacagtttga	ctgttttcg	ttcgacgtgt	20280
ctcgacgtgg	atggtattga	agaggaccgc	gctgatcttg	tgctggtcgt	cgctcgtctg	20340
tccgaccgcc	gcgagtagtc	ttcagtctac	caattacctg	aaaatttgac	actttttgtg	20400
atgtgaaact	ggctgcctga	agcaatgcc	tataataatc	ataataataa	taatgaagag	20460
ggatgaggat	gcatgccaaa	agaatgaaag	gaaagacgct	cttctacaac	accagccgat	20520
agtattttaga	agaaaaagaa	gactaaaaag	agagtattgg	gtgatgggag	aaagaacaca	20580
ataggggagg	cagtgaaata	gaacgagaac	aatggaatcg	gcagacattt	gacactagag	20640
gggccactgt	ttcagtcctt	ttcgcacttg	aatattggaa	gagggccaag	aaggggagtt	20700
ccaagaatgg	aaaaagtgg	aggtttgtag	aaaatctgcc	tttttttttt	taaaatttcg	20760
tgttcactac	tttatttcgt	gttcactcgt	ttatgtcttc	cattataggc	aggcaaagtt	20820
tcatgcctac	atacctgcct	catgcctatt	tgactttcaa	tataaaactt	gatttttggc	20880
attcttcatt	ttataacaat	tgtaactaat	aataagcttt	gcaaagtttt	ctgaaagaaa	20940

ttgtctaaat	tttcttgga	caactgaacat	ttttcggat	aaaatctatg	cgtatcaagc	21000
ctattttctaa	gagccgtaag	tattttcagc	tgaaaatgta	aaccacggag	tcaatattta	21060
cttogtatca	tccatcttcc	attccgtctt	gtttacacct	acggcaggta	tttagacacg	21120
aatgattggt	tttctcggtg	cctaatactt	tttccccga	aatattccca	tattccagtt	21180
ctgaacaatg	cacttttcag	cggtcatcgg	gtccatccag	ccctcattca	gccctttcat	21240
ttatcttcgt	ttctactttt	agacgaaaat	gcaaaaaaa	gagaaaaaga	cactctcttt	21300
tgacgctcac	attcgtcac	attgctgtgg	tagaaaaaca	ctcactcggg	ggctgctggg	21360
aagggaaaac	gagaaaatgt	ttggtcacgc	aatacgccta	tatctttgat	ttgactttga	21420
atctttatac	atttttcacg	gggttcaaaa	acaattatga	agaaaattgt	ttgattaaat	21480
tagaatgtag	attctttata	ttttcaatca	aaaattaatt	ttggaaaaat	aactatccaa	21540
aaaacgaaaa	aagtaataaa	tgagtacttg	aaagtgaat	ggggcaatta	aacaagataa	21600
aaaagactaa	aacgtgagac	atctcacaac	gggtcacggg	caagaagtac	acgagaaatc	21660
gaacgtgagt	ggggaggcag	agacactcag	ctgactgcct	ggcctgacgc	tcgctcacia	21720
aacgctctca	ctctcttcct	cgctttgcc	gctctccgcc	ccgggtcgtc	agttcggtcg	21780
atccatgttt	gttcattttt	ataggtgaaa	atttatgtaa	gggaacggaa	aatgtaaagt	21840
gatcgtggga	aaatagaaaa	acaattacat	tgtaactttt	ctggaccaag	ttgtaccag	21900
atgcaatatg	tatatTTTTc	tcagaaaaata	ctgtgttggg	tttogacagg	atcgatttat	21960
caaaagcaaa	cgagtgtgcg	tctcaacgag	cactaaagtt	cccaactaga	gcaccttgt	22020
tgtggtagaa	ctacatagaa	atttttaatt	ttgatttcaa	tagctttttt	cttgttttct	22080
caaaatttat	tgaaaaactt	atttactata	aaacgaccaa	cgacggatct	ggaaactaca	22140
gtactcctta	atgcaaaagg	caacgaaaaa	tcagccagtg	acttattttt	tgttctggat	22200
aaaaatcggg	aatatttgca	ttttgaattc	gcaactgtatc	gataaacaaa	acaccgaaga	22260
tcacgccaaa	atgactattg	taactaacag	gtacgagaaa	gggacgcttg	ttctacaaaa	22320
ataattcaac	aaattttccc	caaaaaaatg	tgaagtccgc	aattctogta	gttttacgta	22380
aatcaaaccg	agcatgacac	tctgacacca	cgtgcgcctg	aagatgtgcc	tgcttaccat	22440
ggatgcttta	catttgctag	ttccatgaca	cccatcctt	tcagcttcca	agatgaagga	22500
gttcggagaa	aattcgaaaa	aatattgaga	aaaataacc	aaaacattct	gaaacattgc	22560
ggaaaaaagt	tagaaattat	gtcgaatata	tctgaaccaa	tcaacaattt	caaataaaat	22620
acaaaaaaaa	attggaagac	cttaaatagt	ctccgcccat	attttggctt	caaataaccg	22680
tacttcggaa	tatggccgat	ggccgtggca	agacctccaa	tcgtagtttt	gagcggtcag	22740
taagtgaaga	ttaaaatagg	aacagtaccg	taagatcagc	ccaggtgcgg	atgtgggata	22800

gaggaactga aaataatcga agaagcatga taactaagcc acgtggccac gttcgttttt 22860
gcgatgttaa tagatcgcca ctctgcat tgcgttttg tttgtactaa gtctccttag 22920
caattctctc gaaggcgggc cattgctatt agtaaaataa gctaccaatt ttacctttca 22980
atacattcat tcaactgatgg ttttcctatc aggtgatcat ttttttggtc ttctcaatta 23040
cactatctaa aaatgatgaa gtttttgctt cgcggctatt tggttgaagt gatgatatat 23100
ccattgattg tegtctccac ttgtgctctt ttacgtctt acaacttctt ttttaagtgtt 23160
ttgcgtattc actgtttcat ttatTTTTTg cagaaaatga gcctgttcag caaatttttc 23220
ggaggcatga tgcaagaagc tccgattact ccacaagaat ctattcaaaa acttcgggaa 23280
acagaagata ttcttgagaa gaaacaagaa ttcttgagaa aaaaaattga cgacgtaagt 23340
tggaagatca gttttggtcg aattaatcac attaaaaagt gctgaaatcg aaatttttaa 23400
actctcgagt ctcaagtgc tgtgacgtaa ttaaaacatt gctcagcatt tacattgttt 23460
actgacgtct tttcgaagtt tagtcgagca aatccaaaaa agagcaataa aaattttctgc 23520
tacgatacgt ttgggaaatt ggaatcatag ttttttaaac tccatttttc aaaaaataca 23580
ttattagaaa atcagtaagt ttcggaaatt atttgagaaa cgtttcagga aagcaaaatg 23640
ccgtgaagta tggaacaaaa aacaagcgga tggctctcca gtgtttgagt aggaagaaag 23700
ctttcgagaa gcagttgatc catattgacg gagttttggc tactctogaa catcaggttg 23760
gtatataaaa atattagaga aataaattga ataacacggt ttttcttcca gagagaaacc 23820
ctcgaaaatg cttcaacgaa tgctgaagtt ctacacggtta tgaaacttgc tagcgatgcg 23880
ttgaaagcgg ttcataataa catggatagc gaccaagttc gtgatatgat ggataacata 23940
gatgaacaac gagaagtggc gaaggaaatc gcggatgcta tttcaaacc cggctttaac 24000
aacgcaattg acgaggccga tttgctgcgc gagttggtgg atcttgaaca ggttcgtcta 24060
taccaccaac atcgtgtaat tattagaaaa tataccagga agcacttgac aaagatttgc 24120
ttgatgcgag agctcccca gtcacgttc cggatactcc caatattgca cttccagcct 24180
ccagaccgag agctaaagaa gctgacaagg atctagaaga cctcgaaagt tgggcaaact 24240
aacttctcta agtcactttc atatttaatt ttcggctatt tttgtttcat ttgcatcccc 24300
ttcatcaatc ctaccattct cgggagattc tcctaaatca actttctaata tacgacaaat 24360
tcaaatagtt gaatgatttc tgttttagcca tttcattoga aacaaatttc cccaaggcta 24420
cgatcaacac tcatcaaaat tgtaacatat tatcgagctt tttggaaatt tgtcatttta 24480
tacatcttgg tccctttctc caaaatcttc caagcatgca ttaaagttcc aacttttatt 24540
aaaaattcat tctggcaaac atgttatttg taccggttga aaacgaaaac caagcgagaa 24600
atagttacat ctcatatctc cctaacgatg gctcaacccc tttgacgctc atttactaat 24660

gtttatactt	ttgctcattt	actaatgaat	ggctcattta	ctaacttgct	gagatttttt	24720
aatttactac	tgctaattgt	aagatatata	tcattttatca	tttactatat	ataaagcgct	24780
tattccgttt	gtccatagtt	tgtagtctat	gtagtccttg	tagtctgtga	cgttttggct	24840
tctggaagga	tagtgagttg	ggcttagtgt	agggatatag	gggtactgt	agtggtaaa	24900
tagtggtacg	gtaggagtag	tgtatgatta	cggtagtttc	agaaaaatta	gttttcagct	24960
ccagaagtcg	ggggccgcgc	cggaggtgcg	gtccacggct	ggttttacat	aaggtagttc	25020
caaaaaatgt	cctacttcca	attactcata	actcagttag	cgcgctatag	ctatagcggt	25080
tgagttttaa	aaaattgtgg	ccaactgaaa	tgctgtttgt	cagagatgcg	agctctaaaa	25140
gatgatcgaa	atattctatt	tctgcggatc	tagaatattt	cgatcatctt	ttggagctga	25200
catctccgca	atcgctaaag	ataactaaaa	ggtaccaatt	aacaaaatgt	gttttacaat	25260
attgccaaca	acatttttagg	tttctttcgc	tgattgtttc	cttttggttt	tggtgatggt	25320
cccgagtggt	tttttttcgc	tggttctact	attttttgga	tcggcaggct	ctgaacaatt	25380
ggttgtacaa	tcttcttcaa	cttcatcaaa	ttatccagag	ttatgttgtc	gcttctgctg	25440
tccaacatat	tcatgcattt	gacggaactc	ttcaactttc	tgcatgttca	ctggattctt	25500
ctttttcgat	tttattttat	gaaaacttta	ctatcataaa	caatagtatt	tatcatgtta	25560
caaatacagtt	tggaatgatc	tccttcattc	aaaattctta	atgatcagtc	gattcactct	25620
tagagccacg	aaaaatgtgg	gacaattggt	tgagaagtga	aaaatagtta	ttaatgttgc	25680
aattagttgt	acataataag	aatacatgaa	aatacatctt	aaaaatacag	ttactactag	25740
gtattattgc	ttaaaattgt	gttccaatct	gccagtacta	tgagcgtaat	togttgatcc	25800
aatcttcgaa	tagccgtgag	cacaggcttc	gccggcactg	cacacaaact	tcacgattgc	25860
acgatttgca	gaggtagagg	acgaacgact	ttcctgtaat	tggcgaaata	ttgttttaag	25920
ataaagttag	taggaacgat	cgtactgttt	ttagaacgag	actgtctagc	tggtggccgc	25980
atcgagcatt	gatggcatcc	aagacettga	acttcttcgc	tgaatgatat	acgatgcttg	26040
aatatggatc	cactgaaaaat	tgagggtata	gtagattatt	gggagctatt	atgatttcac	26100
ccatgaagaa	ctgcgtcagt	aactcgtttc	agattctcgc	tatccttttc	accgcttttt	26160
cgttgttaatt	ctatgagaaa	acggtagaat	ttggtgacat	ttgtcgagtt	aaacaattcc	26220
acgaggcaga	caaacatctg	aaatttgctg	ttttccaca	aatgcataaa	ctttcaataa	26280
aacaaaccgc	ttctagggca	acatcagcta	aactgtgatc	atgctcgat	tcggcggtta	26340
gcgagaagca	taaatggtag	aataaatgaa	agatatcggt	aggttcgcgg	gaatccggat	26400
tgtagtcttt	gagataatca	acgcaatttt	gtttcagatt	cgatcatcagg	tatttgctgc	26460
atagcctgag	aactgtgcac	acgttttggt	ctgaaaataa	atttggcatt	cattgaaact	26520

acatcgatca tgaactacca tcaataacat cccgatataa accaagagaa ttgggagaaa 26580
 tgacagtgat caacttgaga atatcttccg gtgactcatc aaggatattc agctgcttta 26640
 tggcgcccttc aaggaaaaac ttgttctcca tcaagatgcg gaaataatcc gaatttcttg 26700
 caaagattgc tggatccaca aagtactttt gattaccaac aataataggc cagtttcgaa 26760
 gcttgcttgt cgactcaaaa tcgacctgaa agaaaaatcg aaaaattcca atttaaaaaa 26820
 cgtttgctta cgtaatcgga tccttctagg aaggtttcat gacttggtgt cggctgcatt 26880
 agaatgacgt ttacggggaa atcattatctt attccgaaac gtgcttgggc ttgttctgtt 26940
 tgctgaaatt ttgaaagggt ctccgaatat taagcgaaaa aaacttacat taataatata 27000
 aggtctcata gcgccgagta gctaaacaat taatatttga ttacaagttt ggaaagatct 27060
 ttctgagctc gatcaggaag aaaaacttct tgaaacttta gaagatgaaa tgtgtgctac 27120
 cgtataaact tttaaagggtgc atgaataaat ttctcctttt ggtcctgcga cgattaaact 27180
 ttttaataca ttctctgggc tagtttttat tcaataacta gaaatgttgt ttatttttgt 27240
 tccctactta aatcatatgt tattttcttt ttctttgtg tcttacaggc ttttttagct 27300
 gaagaaatag caattttccg ataaaatttg ttgctctatg ttaaaggcgc atgcatttat 27360
 ttgagagacg ggtctcgcaa cgtgctcact cctcggcccg atttgttctt cgtttgcgcg 27420
 gttttcaggc ctttaaaaga tagttccgtc gtttttttct caattttctgc tgaaataagg 27480
 ttttaattaaa tttattttca aaatcttgggt aaacatttaa actcatatat tcagaatttt 27540
 cattctctt tcaccagaa aaccgaattt caatattaag attaagaaca catctagaac 27600
 atgcaaaaaa cacaattgct atctctctac tttcatttta aggctgattt tttgaagaaa 27660
 aatcatgaaa tacgtccatt attgttgtat cccttggttg catccaaagt tgactcgatt 27720
 gatctcttaa atgtggtatt ccgttcgaaa ttcgattgat ttttagaagt taacacattc 27780
 ggaatgatga taattcgtat caaaccaaaa ttgtcttctt ttgcgcctttt ttgtgcagtg 27840
 tcagcattaa acaaacgag aatattgaaa gttacgtggc gtttgcatct ctcaccacga 27900
 tgacatcacg aaatgcagac gacaaagacc ggtgaaaaat agtgcgctga atggtgaaaa 27960
 cttgcgaaga taacgtgtta cgggttgaga gagaaaacat tccgcgagac aatgcttttg 28020
 gtgagaggcg cagatggttc agagaacact agagaaaacc gcgcctctgt ccgctcacag 28080
 ccagcccat caagcctctt cgggcatcga cgcgatagaca cacatcattt tgccccaatt 28140
 tcctttcatt ccgtcaagta tttcgcaact aatcggtatt gctcattaca atacacattt 28200
 tacagaagtt cctcttcttc tacttggtcc gaccgatca gataactggg agatccagtt 28260
 gtgcatgttc ttgtgccac acaaacctgc gccatttac aattttatga tcgacaaccc 28320
 tcaagaagggt aagcatttaa acgtgttggc cgtgcgtctc aaaaattgt taaaaaacct 28380

ggcgacacgc gtttttccac aatttcattc cctagggcat tttgtatttg aagtaattct 28440
 attacgcgta cgcaatcgga cgaatcctgc aggtttgttg gtagtcaatt ttatcaagtc 28500
 gactgcctct tatgctttct gaaaaaagag aatgacagtt ttcgctaagt agtactaaag 28560
 cgatctttta tctttggcaa aaccttgata taagcattat cacagcatat catgcagatt 28620
 gatttagagt taagcatgaa atgtgcaagg ctaaaataaa ttacaaaata agtccatagt 28680
 ccattttagt aacagtatac atcagctgat agaatcacat gcgtaatgac aggtctaaaa 28740
 cattatcaaa caaaagacat tacaaaaaca agaaaaatac aatataatag aacgactatt 28800
 tgaaatgagc gtagttaaat tcggaacttc aatagattat catacgcgct tttaaaaaaa 28860
 tgtgtgttcc cttttctccg cgtttgcccg ctacaaaccg gtgagtcgga aggcataatc 28920
 ggggttgaaaa aaaagtatca aacactgatg gtgtcttttt tagggagggt gtccagaaaag 28980
 agaaagaaac tgaagatttg cgaatcgata gcgtcgtcat ctctcgacgc cagtgaagtc 29040
 aagatcggtt acaatagtgt atgcgattcc caaaatccac atatcaaccg gactcgtgat 29100
 atttatcatt tgtaagtact aacaagagat gtgaacgtat ttacactcaa cattagcaaa 29160
 ttccagaaga agatctaaac aaaaactatc gaaatggctc tcaacgtgaa ccgcgctgtc 29220
 gctgatccat tctaccgta caagatgcc aagctgtcag caaaagtcga aggcaaagga 29280
 aacggaatca aaacgggtcat ttccaacatg tctgagatcg cgaaagctct cgagcgtccg 29340
 ccgatgtgta tgtttatogc cagttggctc gccattggac acaaaaataa ccattgtttt 29400
 tcagacccca cgaagtactt tggctgtgag ctcggggctc aaacgaactt cgatgccaaag 29460
 aacgagcgtt acattgtcaa cggcgagcat gatgccaaac agctccagga tatttttagat 29520
 ggtttcatta aaaagtttgt gctttgcaaa tcatgtgaaa acccggaac tcagttggta 29580
 cgagatcatt gaattaataa tctgtctaata ttattatttt cagtttgtcc gtaaaaaataa 29640
 catcaagagc aagtgcaagg catgtggatg ttcgttcgac attgatctca aacataagct 29700
 gtctacattc atcatgaaga atcctccaaa gattgatgtc gatttttgta agtatcgttt 29760
 actaacattt ttcgattgaa cttatgcaaa attctgcaa aaattctatt tgcatttttaa 29820
 atcctttcaa ttcgattttc cgtgtgcttc cagtgcatac aaacatgcta atttttggtt 29880
 tccagccaaa gccgaacaaa agaattgaaa gaagacatcg ggtgctgacg ccgccgccgc 29940
 cgtggctgcc gacataatcc acaacagcga caaaggcagt tcgaatgatg acgacgacga 30000
 cgattgggaa cctgaaccag tcgagccgaa tggcatgctg tcggcgggaa tgggcaagct 30060
 cgtgctggac aaggatcttg agaagagcga agaacagcgt ctcgacatgc ttcacacatt 30120
 cttcttgaaa gccaaaggaag aaggtaaaga ttctgagcat tgataaaaag tattctcgtt 30180
 atttcagata gaatttctga tgccaagggg caaactgctc tacgtgacga agctgagaga 30240

cttgagctga	agcaaaaaagc	atctctcctt	ctcgcgaaagc	tttttcttga	tgagaaagta	30300
atcactgaca	aacaaatcag	caaacaccgc	aatcttctgc	ttcgcttcac	gttgaatgac	30360
aagaaagctc	aaagatacct	gttgggagga	gttgagcaag	taattcacaa	acatgaagcg	30420
gaacttctgt	ctaaatcagc	tcacatcatt	aagtcattgt	atgatgaaga	tgtctgcgaa	30480
gaggattcgc	ttatttcatg	gggagagaag	gttagtacca	aatggagctt	tgtttcgaat	30540
taaagtttat	atttacagcc	gtcgagtaag	tatgtctcca	aatcttttgc	caagaagatt	30600
attgagaact	ctcaaccagt	gctcaactgg	ctgaaagaag	cggaagaaga	aaccgaagaa	30660
gagtcgcgac	atgagattgc	ggtaagaaat	atcagatttg	tttttttttt	ttcaatgggt	30720
ggttttccagt	tcggaggaga	cgtcaaggag	agtgaattcc	ttcgtcaaca	gaaggagaag	30780
gctgctagag	aagctcagca	aaaatcagcc	aaggctacaa	acggcaatgc	tgctgctgca	30840
tccggagcaa	atgatgaaga	ggacttggtg	attgatgaca	tttaattgta	cagatgcttt	30900
tttaaaattt	acctgggcta	cttatgtttt	ttgtgtattt	cttcccatat	tcgaaccaat	30960
tcaactaatt	tcgaagaagc	ctcagttttt	ttttgctttc	tccccctttc	aatagtaagc	31020
atcatttcat	ttctgtcttc	tgtcttttct	gttcctacgc	tgttttccct	tcaccaaate	31080
caattcattt	attcgtaaaag	tcattactat	ttgttggtta	tcgtaaaca	ttgggaatat	31140
tcttgttcaa	ttcagtcctta	tattacaaaa	acacaatggt	caaaaaaaaa	gaatcacttc	31200
agatgggaac	ccgtcgaatt	cggcggtccg	atggagaata	cacattgttt	tttcggaaag	31260
ttagcccatt	ttcaaatcat	caccagctg	atttcatttg	cgacgaagcg	ataaattgta	31320
aagagccgaa	aaccttttgc	tgctcggaac	agtactatat	gtacaataag	gcttcactat	31380
tgatggattc	aaaactgatg	gcagcgattc	tagaagcaac	ttgtccgaaa	acaatgaaga	31440
caatgtgttc	taaatggtcg	ttgaaaggat	ggaaggattc	ggtgtaagtt	ttaaatcagt	31500
ttgataataa	aatatgtttt	tctttttacag	atgggatgag	aacaaagaag	aagtgatgag	31560
aataggatgc	ttggcaaaaat	tccgtgcttc	togccatctt	cgttatgctc	tttttctcac	31620
aactggtagc	aaactagtcg	aatgtagtcc	gttcgataaa	atatggggaa	tcggttagtt	31680
tccaacggat	cgtcttattc	ttccatcgcc	catcacaaat	caatcagaat	cttcaaactg	31740
gaaatgtttt	gaaatcattg	aaatcatctt	tgagctgata	tggtgacgga	agaaaaggac	31800
gtctgaaaat	ggctgaatta	ttataggaaa	agatatgcaa	gccgcacaat	gggctccatt	31860
gagctctggc	aagaatctgc	tgggaaagat	tttggtatgga	atccgagagg	aattgtggga	31920
tgattcaaat	tacaagttag	ctctggaatc	agaaaattat	tattatataa	aattactatt	31980
tcagagatga	acgagaagaa	gtggagaaac	gaatggaaac	tgaaagagat	tatctattca	32040
ctgctataga	gcacatggac	ttgatgtaca	aagaaagagc	aacaaaaaga	gtattgtaag	32100

aatcagaaaa tctgcgtaat tgtcgacaga aataacgtat tccagattgt tcgaggaaga 32160
attgttaact gatgatagat cctacatcac accagatatt cagaggctcc ttcccgactg 32220
ggcttggccg ccgatcctcg tgaaaaacga gcctattcaa ccatcgctgc ctgtaataat 32280
cgatttccct aggtacttgc cttgatcttt aatttatcag aattaacttt caaattccag 32340
atcatctcca cttcgagcag ctgaaatata acgtaggaag agcacatctc attcgacaag 32400
cttgagtaaa aggcgggtacc tcaggagcag atcgagaagt ctgtccaaaa gcccggtcg 32460
aagacgctoc agacatcttt cccgaagtgg atcccgta caagctcaac ggcattccag 32520
aagatccgaa agtacatctc gaagacgttc cggacggcac tctagaagtc gatctagaag 32580
cccaccacga aaacgtccgg tacgccgatc aagaagcaga tccaggagca ggacaccaaa 32640
ccgaaattgg acaagagcac ggagcagaac aagaagtcag gctaaaagta gcagcacttt 32700
aacctggcca ctgagcccat cgagaagcag aagtaacagt aatgaaagga atttgaaaga 32760
gaagaaagac cggaaaaaga aaaaatctga gaagaaacgg aagcatcatt ctaaatccag 32820
aaaacaccgt tctaaaagat ccgaatccag agaagaacgt cacagaagac ggaaggagaa 32880
gaaaagagag aaaaagaaga aacgacgtcg gagaagttcc actacttcag attaaacttt 32940
atttttgaaa actagtcata actttaaaag tcataacttt tttaaaaagtc ataacttg 33000
tttaatatca aatgtctttt caaatattct ctatttattt attcttcgta attaaactga 33060
gattaagtac tgggtatata attaataaaa ttacgatact ttgccgaata aatcagttat 33120
aattacaatc tgtctgctgg tgaaaattgt acatgctatt ttcttgttcc tcattctttt 33180
ttcattctct gtaagggtttt gttcgttttt tgaaaattc tgagagtagc cggaaaaaaa 33240
aaaaaaaaaa actaaatacc tacagtaatg ccagaggcat atgtcaata attatcaaaa 33300
attagttttc cgcggcgaga cccatcccca caaaagtatg actcccttga aagtcgtaaa 33360
tgacaatttc ttgaaacaag aacatttgta tattaacgaa acacaaaatt ccgagaatgc 33420
gtattgagca gcatatttgc cgagccaaat atctcgtagc gaaaactaca ttaattctta 33480
aaaacactac tgtagcgctt gtgtcgattt acgggctctt tgaattatca ttgatttata 33540
gatagaatat ttaaaaaata aattcatttc gaaattagag ccataaaatc gacacaaaca 33600
ctacagtagc catttaaaga attactgtag ttttcgctat gagatatttt gcgcatcaaa 33660
tatgttgcgc aatacgcatc ctcagaattg tgtcttccgt aataatagac agtggcttcg 33720
ctaaaaacta agaacaaagt aaattaaagt ttttttctgt tcacttcaaa ttttacagca 33780
tcttgaagca aagttcaaaa gagcatgaat caattggaaa gtgttcaatg caccctacag 33840
atatgatttc ggggcagtgt aaactacagg gcacagacat aaaaatttaa attgttgaag 33900
actaaaatat aaacatatga attcaagggt cataataaat gtattttttt aaataatatt 33960

tattaaatgt atgcatacaa ttaaatacaa cataattatc aaatacaaat attataattg 34020
caacctgtcg gacaacaact ttgctgaggt gtcgtgtgac agtcagaatc cttgtcacac 34080
cagctgaccg gctcagagac gatacatcg aagttgagat gactgactgg tggacattgc 34140
cgacgcgttg gagcacaaca ctcacgatat cgagtcattg cgatgcagcg ctgaaactca 34200
ggaaactatg tggaatttag gtggatcacc caaccagctg cccttcaccg cactgataat 34260
ttggagtga gtacatgtaa tgggcagagc attgctgcat ttgcatcaca atcaatgaat 34320
ttgcaaaggc cctggagatt ggcttggttg aaagagttga tattatttct attgatataa 34380
taccctaaat ttacgaaaat tatgctaaat taggatttta gttataatcc tcgtcacatc 34440
tgatctctga aaacttaaaa atatcctttt tggtagtgtg gcaccaaatt cgtgctgtaa 34500
cagagaccaa aaacactact ttttcgacat ttcctctcct tgcagcgaaa aataaaaattt 34560
tttgaaaatc tgtgttttct catacccgga aaaaaccaac aaaaacggcc ttgttccaaa 34620
ggcgtgtgag atttctattt tatgaaagtg gccgagattt ctctttttct acgccaagta 34680
gttaattctt cgcggcaaga cccatcaatt ttctaacctc taatctcttt ttcaacatga 34740
atatccacgt catcatagaa tttgcactcg ggcttataga tttggagcct ttgaaagtat 34800
atgcaccagt ctatatgggt gttgggaaac gaataggcag tagttttttg gaccaattgt 34860
agaatagaca gtagtaatag ggaagaatat aagaatttca taattcagat ttcaataaaa 34920
aataaattta attgagaaaa aaaacggttg atattctttt gtttaagcag acaagtatgc 34980
ggaagtgaat cttgagcacc tcgtaaatca cgggaggcgt acttgtagag aagagagata 35040
agggattaag aggcgcaagc tttgccactt tgaagttaaa aaataaagaa agagacatgc 35100
aaattggtgg acaaatagcg gaaggtagc gggaggtggg aggggggaca ggtgcatgta 35160
acacaatgga ttttacaata ggaatattga aaatacgc atgggaaatc ggaacagata 35220
tgaaggtgtc aatatttgag gtcaactgtc tggtttttcc ccgatttttg aattttttga 35280
aaaaaagtgc ataattcaca gattgaaatt ggaaattggt cgagaaaaga ataaggagtg 35340
ttatgaattg atggtggcaa caaaacacaa attctacatt tgtaccaaaa tgcccactaa 35400
aatgggcata ttcgcacaca ttccacacaa attgcataca tattccacaa tggggaatat 35460
tttgaatatt tagattaata aagatgaaat aattgagttt tatttgtaat taaaatattt 35520
ttctgtttat cattaattga aaatgttgaa ttacttttta atagacgaat catcaaagaa 35580
cttgatccct gcattatcag gcaatcctac ataacctttc aacgttgctg ttttaccat 35640
tgcaacattt ctgctactg gaacacgc atggaatac gatgacgatt ccaattggaa 35700
gaatatattg gtgcccgtt ggaagttaac aattgaattg ttgttaagcg ataaaggata 35760
cacattgata acatccaaaa gttcagttat gtatatccat ccgtataaat cttgcgatct 35820

tccattcacc	aaaagctggt	cgccatcttg	tataggaatg	aatggagtta	aggatcccg	35880
aacagtaaga	gttgtgagcg	tagttccact	gaaaattact	aaatatttag	ttcaaagggt	35940
ttctgttact	actttttggt	tgcaacaact	ctgagaaatt	ttagttttca	ccaaaatttt	36000
tcgattttgt	acagaattgc	acaatatatt	ttggaatagc	aagaaattgt	tcagtgaatg	36060
tcaaactctga	caaaaaaaaa	tttttttaaa	aggtgcctat	caatttttaa	aaatgttcta	36120
atattttggt	ggaaagtttc	aataatttca	ctacatttac	tatttctttt	ttaggcctat	36180
tttgggtatt	caaaatatta	accacacgac	cttcaatata	ggaaaactgt	caaatttttt	36240
ttaaattatg	aacaattaac	tcactttaca	ttttgtcctc	cattccttgt	agttaataata	36300
agacttccca	acgcttcttg	agaactatcc	gaaataatat	aaatcttcga	atttcttctc	36360
actatatata	ctagtgtggt	gtcgttgca	acgtctagag	tatccaatat	aaaccacta	36420
gaagctgata	taaagaaaaa	taatagaaat	atatttttca	ttttttccaa	atgactaaat	36480
gaccaacttc	aagacatttt	atatgcttaa	aatcacgtca	cagaactata	atcatgttga	36540
tttttgatag	aaaatgataa	gaaatgcgac	caaaatgtgt	attttctccg	tttgtcctct	36600
gaatgagtca	aattcacgta	aaacttggca	tttgtcacag	tgtgtcagac	acaaggcaca	36660
tatgtattta	ccggactttt	caagacttta	ttattattga	gatcaaacca	gattacagaa	36720
gacgggagaa	aggtaccaac	aaatatcaga	atattgcaaa	aaaaaattaa	aaatttcaaa	36780
acgcaaactt	caaactagga	gagctaattc	aaactttgaa	atcatgttcc	ataaccggta	36840
gcatttggtc	ggtgacttgt	ttgacagccc	attgaaggaa	gagaagtact	cccgcacggc	36900
tgaaacatat	gaaatagtcc	aggccttcca	ttagagaatg	tgatgtttga	aggagaaca	36960
atgggacgta	gagtactccg	aatagagcag	taagtccatt	gatgagctga	aacagtaaat	37020
aatcgaaaag	ttagtaaaata	tgttcaagga	atggaagtaa	accggaatta	tccgagtatg	37080
ggcggtttat	agttttttct	ctttttttga	cttcggtttt	catcctatta	aaatatcatc	37140
ggttttttcg	agttccagaa	aaaatattta	aaaaatcatc	cgaaatccga	acacaaaatc	37200
cgaaggctac	tccaaggtaa	gttaacccta	ctcggcaaat	ctctcgtcct	ggagcgcgga	37260
cggggcgoga	ctagatcacg	ggttcgcgct	ccagtcaccc	tttttttcgc	gcttcttacg	37320
cgccacgtcc	gcgcttcagg	aggagcgatt	tgccggagtac	cttttatgca	ttcagactgg	37380
tacttaaaaa	ttaatcgatt	tttttaaaaa	gtgtcataaa	ctttttctac	gtctttttct	37440
gacacaatgt	tgaaccgtac	tagattgttg	taaacacggg	cttcaaattt	gatttttcgcg	37500
aaaaaatttg	aataattttt	ttctaacttt	tttcttttta	aaatcttacc	acacttagca	37560
aataaccatg	aagcacaact	tcataagtgg	atcctatttt	tcgtttgaag	aggcaaaata	37620
ctgaaaacaa	aagagctgat	atggagcaag	acacgtggat	ccagaagagt	atcgcacaa	37680

tcacactatc	cccttcgatt	ttgacgcggt	acagaattct	ggaatttttt	tttgaacttt	37740
aatggattgc	gattcaaaaag	aaaacgtagc	ttaatctcca	gttaaagctg	attttcattg	37800
caaaatgtat	ttagaaaaaa	ctcacgctaa	taaggcggag	agtattgtct	gtagaaccgc	37860
catgattact	gtagatgcat	agagtgagaa	tgagcacata	taagcgctcg	gctgtttttg	37920
aacgacaatc	gaattggccg	ccatcatctc	attcttcgac	ctcccgtttt	attttctgaaa	37980
atatatgaca	ctttttaaat	gaattgacag	aaatctgatg	ctaactacat	tttaacttgt	38040
aggagtgggt	caaatgattc	ataaaggga	tacaatttct	gaatgatcaa	agaagaaaga	38100
aaaaaaatat	tggatgaatgt	ataatttttt	aggggtaaag	taaataaata	aacacaaggc	38160
cgaagattag	caagagtttg	gggataaccc	ccgtgaagaa	aaatatgaaa	aaaaatgggt	38220
tgaaagaatt	aaaaaaatcc	tttcaaattt	gagattcaaa	ttttgttcat	ctgttctgtt	38280
cgaacattga	gcagaagaag	cttttaccac	taaatccaaa	atttgtaaag	agaatatagt	38340
ttaaggatat	caccagtttc	aaaatagtag	ttcaaaaact	cgagtcttaa	ttttttcagt	38400
attcgaattt	ttacagtaca	ttgatcgttt	cgttatttga	tcgctttttg	ataaaacaaa	38460
aaatagataa	tgaagctgcc	aagtttaaaa	aaatcggggc	taaggctaag	ggagcataca	38520
cgttatatca	ctacctggat	attagtttta	gacttcatca	gatatttagt	cagaaaagta	38580
cgtcaagaag	toggatacga	aatgtataaa	tttcttaaaa	cttaaaactt	cgagatatcc	38640
agactgtggc	tctcaagctt	cagtgccttg	agaaatagtt	taatagtcag	aatatgtttt	38700
aaattttotta	atttttctga	agaagtcgta	aaagtataaa	tggtgctaga	tcaaactctc	38760
tagaaaacct	tcaccacttg	agaatactcc	agtctcaa	ttccctcga	cgcggaagtg	38820
tagaaggcg	cgagattcag	aagtaggtga	aaattagacg	gaaaactctc	tcaaaattga	38880
aatcaatgaa	taggacaact	gagacaatgt	gcaggtgtat	gtgtatgcac	atggcaccca	38940
cgtacacgca	tacatcttat	gtagagaag	tacgtgtgct	ccgctcatca	tgtcttctcc	39000
ttctcctaca	tctacatttt	ttgctccgtg	agccacgccg	ggaaaaacga	cgacgacgac	39060
ggcgacgggg	gacgactact	cgactcta	tggccctaaa	cgcaagtaaa	tttttaggca	39120
atgtatgttt	gcgagagttg	agagccccac	cgccacgagg	agaagtgggg	gaagattccg	39180
aagagattcc	ccctcctcct	tctgatcacc	tcgtctttcc	ttttttgttc	catttccgtg	39240
aaaaagctgt	ggaaggagg	agaagaactt	accggctaaa	tggaaaaaaa	ggaactctaa	39300
cttattctga	ctctacggaa	ataggaagcc	tacttgtcaa	ttagaccgcc	ctcgcacaga	39360
tttctttttt	ttttagata	caaataaaa	aactaactgc	gtgtgatgca	gcagatatct	39420
tgaattggaa	agtgtcagtg	ctcagaggga	atagccaatc	attgacagaa	atttgactac	39480
ttcagaagga	atcaactaga	acatttgacg	cctgaaacct	aacaagaaaa	atctataatt	39540

tgagatccc	tagattgatg	ccaactttat	taaaaactaa	gtatacttat	atatatacga	39600
tttttttaaa	aataaacctg	attgtctgaa	tttctacaag	attgcgacca	aattttccgt	39660
atttccaaaa	tctaataatta	ggggtttcta	ctaaaattca	acgagaactc	ttaacattat	39720
ggttatttta	acacatgggt	caccgcgcgg	tcaaacttca	ttcttagtcc	tctgattttt	39780
ggtaaatacg	cgcctacgtc	tcaacaatta	gtttgtgcag	aaaataagta	aaaagagttg	39840
tgctccatct	tgcacacata	cacatcgcct	gtaatgaaga	ggttcggagt	cagatgacta	39900
ggcgtagaaa	tgtgcgaaat	tcacggataa	cagagatttt	tgatgtttca	tcagacttac	39960
acgttttgga	agtatgaatt	gggtctagac	aacggagtg	cagatgttcg	gaaaattttg	40020
cagaaaagag	aacctaagag	cgttgatggt	ttggtgacta	acgaacttaa	aagaaaattg	40080
gtcattgaaa	attttaaaat	tttaaatttt	gcttgcagtt	catctttctc	tattaacaaa	40140
aattattttg	tagcttttct	caatttcagg	caattaaaac	atttcaattt	attcttctat	40200
tatggaagtt	tatctctaata	tgaaaactctc	caattttgat	caaagaacaa	acgttctcgt	40260
tgtttgaaaa	aaaaaacagt	tcttttttga	aactcgcgcg	caaattatta	accaatcatc	40320
ctcgtttg	cgcaaaattg	tagaaaaaat	catttaaatt	tatcaaaaat	agtttaccat	40380
tctgatgagt	tttcatata	caaaaatgcc	ctggcaattg	ttgttttctc	tgaaatagca	40440
cataataatt	gaactctacc	cacataaagt	tcgttctgaa	aaacacctta	caattattgt	40500
gattgagagc	cacccaaga	gggattagaa	aaacggatgt	aatctgtata	ccttcgagat	40560
tcgtttat	ccttgtataa	ccaatagcag	gaaaattaca	gctttttcta	agtaagcgg	40620
gaaactagag	agattctata	gaatatgggc	gttaataatt	gtatgttaaa	gttttagaat	40680
aacacaagtc	cagagtaagg	gcaagaaaag	taatgagcaa	cggaaaccag	catgcaagac	40740
acccgaattc	cgttctctt	ctgaaaactaa	aagttgcgtg	tactaaacct	taaaccagca	40800
gctggctagt	ctcaagaaat	aatagaaaaa	aggaaggaat	gaagatatgg	gaataataca	40860
aattgaaaat	gttgtgtgag	ctccgaataa	ttttcaatat	caaaaattta	tgaatttgt	40920
ggacggctgt	gtgtgcgtgt	gcgtatgcgt	cggcaagaaa	aagaagcgac	cgaataagaa	40980
aatggttgat	tcagtgaaca	aaaaaagaga	gaaagatatc	caaacaaaat	tattcaaaac	41040
tattatcaat	cggtaggtat	tgctctagag	cacacctttc	tggacactca	gcagacatgc	41100
gtagagaggg	attatgtggt	acatatagtg	gatggaggaa	cagatattta	taaatactta	41160
tggaagagag	gatgaagata	ggatgaggta	gatgaattga	gaagatttta	aaatgataat	41220
ggatattgaa	tttgaataag	gagattctaa	attatccgaa	gaacacaaac	tatatcaaga	41280
ctacaaaata	atctagacga	gtcccagttt	tgcaaggtaa	ggattaatct	taaaaggatc	41340
ttttaaatat	ttatttcaat	gtcctataaa	attttaaaaa	gtaggtgcat	tctaatatgt	41400

acagtgatta ggagatatgt gacgttacgt gaggtctcga taaagtacgg tattcgagct 41460
 aaattttcaaa cattgtcaag gtagattcgg tacacagcca ccataaatgt tccactaaaa 41520
 atgtgttgtc cttctccttt ggaacacaaa tctagctgct gaactttttc acttcactac 41580
 atgtcaatgg gattgatatg catctaggac atttttttgg ttatcaatag tccgcatagc 41640
 ttgcgtaacc aatacaaccg attgtccaaa aaaatttgaa cactacaaaa cgtattttatt 41700
 attcggatac ccgttgccatt tcaatacaca agttgatact tgctgcccct cggggctctc 41760
 agacactcat tgactgaaaa cagacgattg ctgcgtcgtc tagtctgaag gctcggagag 41820
 ctgaggaaga tatgaggaca taatgaattg atgtgtgaga atgagaaaat gaaaaaggaa 41880
 aaatgagaaa aaaaagatga tgaagaatgt acaaatgaat aatcaagtag caatgacgag 41940
 aaaagaacca ggtccttttg gcaggcaatt ttcgaaattt tcagatcaaa tttgtcgcca 42000
 ttgcttctgg attaataatg gatgacgctt tgacaatggg gctcaataga agtgcaaaca 42060
 gattggtttg ggatggcgta tagaaataga gccgggtgaga cgatgtgatg aagttctgag 42120
 agacgagatg tgatcgaggc gttttagtgc gaggcaaacc gaggccgcat atgggggttc 42180
 gataggcaat cggagaccag tgtccatctg aaagagataa aagttattcg agttgtgaat 42240
 gttgcaagga aaattaaagg tacagtagag acaatcgaga cttttttcgg gaggacgcca 42300
 tctaaaaact gtggaagcac gtggcttttg tagcttgatg tcacagaagt tgattccata 42360
 agaattacat tagaaagctt gcgacgctaa atggataaat ctggtaacgg cttcctaata 42420
 gcaagttaag ttttttcaca ataaattttt cagaattgaa tagatgcatt ttataactta 42480
 cacatcgagt gggcacgttg gtggacaaga caagccccga t 42521

<210> 24
 <211> 4434
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown Organism: Unknown

<400> 24
 gccgcctctg ccaccgctcc cggccgcgcg gctccggtac acacaggatc cctgctgggc 60
 accaacagct ccaccatggg gctggcctgg ggactaggcg tcctgttcct gatgcatgtg 120
 tgtggcacca accgcattcc agagtctggc ggagacaaca gcgtgtttga catctttgaa 180
 ctcaccgggg ccgcccgcaa ggggtctggg cgcgcactgg tgaagggccc cgacccttcc 240
 agcccagctt tccgcatcga ggatgccaac ctgatcccc ctgtgcctga tgacaagttc 300
 caagacctgg tggatgctgt gcggacagaa aagggtttcc tccttctggc atccctgagg 360
 cagatgaaga agaccggggg cacgctgctg gccctggagc ggaaagacca ctctggccag 420

gtcttcagcg tgggtgtccaa tggcaaggcg ggcaccctgg acctcagcct gaccgtccaa 480
ggaaagcagc acgtggtgtc tgtggaagaa gctctcctgg caaccggcca gtggaagagc 540
atcacccctgt ttgtgcagga agacagggcc cagctgtaca tcgactgtga aaagatggag 600
aatgctgagt tggacgtccc catccaaagc gtcttcacca gagacctggc cagcatcgcc 660
agactccgca tcgcaaaggg gggcgtcaat gacaatttcc aggggggtgct gcagaatgtg 720
aggtttgtct ttggaaccac accagaagac atcctcagga acaaaggctg ctccagctct 780
accagtgtcc tcctcaccct tgacaacaac gtggtgaatg gttccagccc tgccatccgc 840
actaactaca ttggccacaa gacaaaggac ttgcaagcca tctgcgcat ctctgtgat 900
gagctgtcca gcatggtcct ggaactcagg ggcctgcgca ccattgtgac cacgctgcag 960
gacagcatcc gcaaagtgc tgaagagaac aaagagttgg ccaatgagct gaggcggcct 1020
cccctatgct atcacaacgg agttcagtac agaaataacg aggaatggac tgttgatagc 1080
tgcactgagt gtcactgtca gaactcagtt accatctgca aaaagggtgc ctgccccatc 1140
atgccctgct ccaatgccac agttcctgat ggagaatgct gtcctcgctg ttggcccagc 1200
gactctgcgg acgatggctg gtctccatgg tccgagtgga cctcctgttc tacgagctgt 1260
ggcaatggaa ttcagcagcg cgcccgctcc tgcgatagcc tcaacaaccg atgtgagggc 1320
tcctcggtcc agacacggac ctgccacatt caggagtgtg acaagagatt taaacaggat 1380
ggtggctgga gccactggtc cccgtggtca tcttgttctg tgacatgtgg tgatggtgtg 1440
atcacaagga tccggctctg caactctccc agccccaga tgaacgggaa accctgtgaa 1500
ggcgaagcgc gggagaccaa agcctgcaag aaagacgcct gccccatcaa tggaggctgg 1560
ggtccttggt caccatggga catctgttct gtcacctgtg gaggaggggt acagaaacgt 1620
agtcgtctct gcaacaaccc cacaccccag tttggaggca aggactgcgt tggatgtgta 1680
acagaaaacc agatctgcaa caagcaggac tgtccaattg atggatgcct gtccaatccc 1740
tgctttgccg gcgtgaagtg tactagctac cctgatggca gctggaaatg tggtgcttgt 1800
ccccctggtt acagtggaaa tggcatccag tgcacagatg ttgatgagtg caaagaagtg 1860
cctgatgcct gcttcaacca caatggagag caccggtgtg agaacacgga ccccggtac 1920
aactgcctgc cctgcccccc acgcttcacc ggctcacagc ccttcggcca ggggtgtcgaa 1980
catgccacgg ccaacaaaca ggtgtgcaag ccccgtaacc cctgcacgga tgggaccac 2040
gactgcaaca agaacgcaa gtgcaactac ctgggccact atagcgaccc catgtaccgc 2100
tgcgagtga agcctggcta cgctggcaat ggcatcatct gcggggagga cacagacctg 2160
gatggctggc ccaatgagaa cctggtgtgc gtggccaatg cgacttacca ctgcaaaaag 2220
gataattgcc ccaaccttcc caactcaggg caggaagact atgacaagga tggaattggt 2280

gatgcctgtg atgatgacga tgacaatgat aaaattccag atgacaggga caactgtcca 2340
ttccattaca acccagctca gtatgactat gacagagatg atgtgggaga ccgctgtgac 2400
aactgtccct acaaccacaa cccagatcag gcagacacag acaacaatgg ggaaggagac 2460
gcctgtgctg cagacattga tggagacggg atcctcaatg aacgggacaa ctgccagtac 2520
gtctacaatg tggaccagag agacactgat atggatgggg ttggagatca gtgtgacaat 2580
tgccccttgg aacacaatcc ggatcagctg gactctgact cagaccgcat tggagatacc 2640
tgtgacaaca atcaggatat tgatgaagat ggccaccaga acaatctgga caactgtccc 2700
tatgtgccc aatgccaaacca ggctgaccat gacaaagatg gcaagggaga tgccctgtgac 2760
cacgatgatg acaacgatgg cattcctgat gacaaggaca actgcagact cgtgccc aat 2820
cccgaccaga aggactctga cggcgatggg cgagggtgatg cctgcaaaga tgattttgac 2880
catgacagtg tgccagacat cgatgacatc tgtcctgaga atgttgacat cagtgaagacc 2940
gatttccgcc gattccagat gattcctctg gaccccaaag ggacatccca aaatgaccct 3000
aactgggttg tacgccatca gggtaaagaa ctctgcccaga ctgtcaactg tgatcctgga 3060
ctcgtctgtag gttatgatga gtttaatgct gtggacttca gtggcacctt cttcatcaac 3120
accgaaaggg acgatgacta tgctggattt gtctttggct accagtccag cagccgcttt 3180
tatgtttgta tgtggaagca agtcacccag tctactggg acaccaaccc cagaggggct 3240
cagggatact cgggcctttc tgtgaaagt gttaaactcca ccacagggcc tggcgagcac 3300
ctgcggaacg ccctgtggca cacaggaaac acccctggcc aggtgcgcac cctgtggcat 3360
gaccctcgtc acataggctg gaaagatttc accgcctaca gatggcgtct cagccacagg 3420
ccaaagacgg gtttcattag agtgggtgatg tatgaaggga agaaaatcat ggctgactca 3480
ggacccatct atgataaaac ctatgctggg ggtagactag ggttgtttgt cttctctcaa 3540
gaaatggtgt tcttctctga cctgaaatac gaatgtagag atccctaata atcaaattgt 3600
tgattgaaag actgatcata aaccaatgct ggtattgcac cttctggaac tatgggcttg 3660
agaaaacccc caggatcact tctccttggc ttccttcttt tctgtgcttg catcagtgtg 3720
gactcctaga acgtgcgacc tgccctcaaga aaatgcagtt ttcaaaaaca gactcagcat 3780
tcagcctcca atgaataaga catcttccaa gcatataaac aattgctttg gtttcctttt 3840
gaaaaagcat ctacttgctt cagttgggaa ggtgccatt ccactctgcc tttgtcacag 3900
agcaggggtg tattgtgagg ccatctctga gcagtggact caaaagcatt ttcaggcatg 3960
tcagagaagg gaggactcac tagaattagc aaacaaaacc accctgacat cctccttcag 4020
gaacacgggg agcagaggcc aaagcactaa ggggagggcg cataccgag acgattgtat 4080
gaagaaaata tggaggaact gttacatgtt cggtaactaag tcattttcag gggattgaaa 4140

139555

gactattgct ggatttcatg atgctgactg gcgtagctg attaaccocat gtaaataaggc 4200
acttaaataag aagcaggaaa gggagacaaa gactggcttc tggacttcct ccctgatccc 4260
cacccttact catcacctgc agtggccaga attagggaaat cagaatcgaa accagtgtaa 4320
ggcagtgtcg gctgccattg cctggtcaca ttgaaattgg tggcttcatt ctagatgtag 4380
cttgtgcaga tgtagcagga aaataggaaa acctaccatc tcagtgcagca ccag 4434

<210> 25
<211> 2837
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Unknown

<400> 25
agagagccag tccgatgtct gcagcctccc tggccaggcc tctcctctcc tgccgcagct 60
agtccccctc aggacagaca gactactggc gtcggtcacc attcacttgc aaacacacca 120
ggtcacgtga agaaacttcc tggtgacact caggctgtag ctgtgcactc ttcaaccacg 180
aggttggttt tctcctaagt gtcacaggtg gagacaagat gctctgggca ctggccctgc 240
tggctctggg catagggcca agagcttctg ctggtgacca cgtcaaggac acttcatttg 300
accttttcag catcagcaac attaacgga agaccatcgg tgccaagcag ttccgagggc 360
ctgaccccg ggtgccgcgc taccgttttg tacggtttga ctacatcccc ccagtgaaca 420
cagatgatct caacaggatt gtcaagcttg caaggagaaa ggagggttc ttcctcacag 480
cccaactgaa gcaggaccgc aagtctcggg gaacgctcct ggtgttgga ggccccggca 540
cctcccagag gcagtttgag attgtgtcca atggcccagg ggacactttg gacctcaact 600
actgggtaga aggcaatcag cataccaact tcttgaggga tgtgggcctg gctgaactcc 660
agtgaagaa tgtgactgtg cagggtggca gtgacaccta tagcctgtat gtgggctgcg 720
atcttatcga cagtgtcacc ctggaagaac cattctatga gcagctagaa gtagacagga 780
gcaggatgta cgtggccaaa ggtgcatctc gagagagtca cttcaggggc ttgctgcaga 840
atgtccatct cgtgtttgca gattctgtgg aagatatctt aagcaagaaa agctgtcaac 900
acagccaggg agctgaagtc aacaccatca gtgaacatac agagactctc catctgagcc 960
ctcacatcac cacagatctc gtggtccagg gtgtggagaa ggcacaggag gtgtgtacgc 1020
actcctgcga ggagttgagc aacatgatga atgagctctc tggactgcac gtcattggtga 1080
accagctgag caagaacctg gagagagtgt ctagtgataa ccagttcctt ttggagctca 1140
ttggggggccc totgaagaca agaaacatgt cagcctgtgt gcaggagggc cgaatctttg 1200

cagaaaaatga aacctgggtt gtggatagtt gtaccacatg cacctgcaag aaatttataaa 1260
cagtctgcca tcagatcacc tgcacacctg caacttgtgc caacccatct tttgtggaag 1320
gcgagtgtctg tccatcctgt tcacactctg cagacagtga tgagggctgg tctccgtggg 1380
cagagtggac cgagtgttct gtcacctgtg gctctgggac ccagcagaga ggccggtctt 1440
gtgatgtcac cagcaacacc tgcoctgggccc cctccattca gacaaggaca tgcagcctgg 1500
gcaaatgtga tacgagaatc cgtcagaatg gaggctggag tctactgtca ccctgggtctt 1560
catgctccgt gacttgtgga gttggcaatg tcacccgcat acgtctctgc aactcaccag 1620
tgccccagat ggggtggcaag aactgcaagg gcagcggccg ggaaaccaa cctgtcagc 1680
gtgatccgtg cccaattgat ggccgctgga gccctgggtc cccttgggtca gcctgcacag 1740
ttacctgtgc tggagggatc cgtgagcgct cacgtgtttg caacagccct gagccccagt 1800
atggagggaa ggactgtgtc ggggatgtga cagaacacca aatgtgcaac aagagaagct 1860
gccctattga tgggtgctta tccaaccctg gttttcctgg agccaagtgc aacagcttcc 1920
ctgatgggtc ctggtcctgt ggctcctgcc cagtgggctt tctgggcaat ggtacccact 1980
gtgaggacct ggatgagtgt gctgtggtca cagatatttg cttctcaact aacaaagctc 2040
cccgtgtgt caacaccaac cggggcttcc actgctgcc ttgtccacca cgctacaagg 2100
ggaaccaacc cttcgggtgt ggccctggagg atgctaggac agaaaaacaa gtgtgtgagc 2160
cagagaatcc atgtaaggac aagactcaca gctgccacaa gaatgcagag tgcatctacc 2220
tggggcactt tagtgacccc atgtacaagt gtgagtgcga gattggctac gcaggtgatg 2280
ggctcatctg cggggaggac tcagacctgg atggctggcc caacaacaac ctggtgtgtg 2340
ctactaatgc cacctaccac tgcataagg acaactgcc caaactgcc aattccgggc 2400
aggaggatit tgataaggat ggaatcggag atgcttgtga cgaggacgat gacaatgacg 2460
gtgtgagcga tgagaaggac aattgccagc ttctcttcaa tccccgtcaa ttagactatg 2520
acaaggatga ggttgagac cgctgtgaca actgcccta tgtgcacaac ccagcacaga 2580
tcgacacaga caacaatggc gagggggatg cctgctctgt ggacattgac ggagacgatg 2640
ttttcaatga gcgagacaat tgtccatatg tctacaacac tgaccagaga gatacggatg 2700
gtgatggcgt ggggtgaccac tgtgacaatt gtcctctgat gcacaacca gatcagatcg 2760
atcaggacaa tgatctcgtt ggagaccagt gtgacaacaa tgaggacata gatgatgacg 2820
gccaccagaa caaccaa 2837

<210> 26
<211> 4108
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism:Unknown

<400> 26

agagagccag tccgatgtct gcagcctccc tggccaggcc tctcctctcc tgccgcagct 60
agtccccctc aggacagaca gactactggc gtccgtcacc attcacttgc aaacacacca 120
ggtcacgtga agaaacttcc tggtagacct caggctgtag ctgtgacctc ttcaaccacg 180
aggttgggtt tctcctaagt gtcacaggtg gagacaagat gctctgggca ctggccctgc 240
tggtctctgg catagggcca agagcttctg ctggtagacca cgtcaaggac acttcatttg 300
accttttcag catcagcaac attaacggga agaccatcgg tgccaagcag ttccgagggc 360
ctgaccccg ggtgcccgcc taccgttttg tacggtttga ctacatcccc ccagtgaaca 420
cagatgatct caacaggatt gtcaagcttg caaggagaaa ggagggttc ttcctcacag 480
cccaactgaa gcaggaccgc aagtctcggg gaacgctcct ggtgttgga ggccccggca 540
cctcccagag gcagtttgag attgtgtcca atggcccagg ggacactttg gacctcaact 600
actgggtaga aggcaatcag cataccaact tctggagga tgtgggcttg gctgactccc 660
agtgaagaa tgtgactgtg cagggtggcca gtgacaccta tagcctgtat gtgggctgcg 720
atcttatcga cagtgtcacc ctggaagaac cattctatga gcagctagaa gtagacagga 780
gcaggatgta cgtggccaaa ggtgcatctc gagagagtca cttcaggggc ttgctgcaga 840
atgtccatct cgtgtttgca gattctgtgg aagatatctt aagcaagaaa agctgtcaac 900
acagccaggg agctgaagtc aacaccatca gtgaacatac agagactctc catctgagcc 960
ctcacatcac cacagatctc gtggtccagg gtgtggagaa ggcacaggag gtgtgtacgc 1020
actcctgcga ggagttgagc aacatgatga atgagctctc tggactgcac gtcattgtga 1080
accagctgag caagaacctg gagagagtgt ctagtataa ccagttcctt ttggagctca 1140
ttgggggccc tctgaagaca agaaacatgt cagcctgtgt gcaggagggc cgaatctttg 1200
cagaaaatga aacctgggtt gtggatagtt gtaccacatg cacctgcaag aaatttaaaa 1260
cagtctgcca tcagatcacc tgctcacctg caacttgtgc caaccatct tttgtggaag 1320
ggagtgctg tccatcctgt tcacactctg cagacagtga tgagggtgg tctccgtggg 1380
cagagtggac cgagtgttct gtcacctgtg gctctgggac ccagcagaga ggccggtctt 1440
gtgatgtcac cagcaacacc tgcctgggac cctccattca gacaaggaca tgcagcctgg 1500
gcaaattgta tacgagaatc cgtcagaatg gaggtggag tcaactgtca ccctggtctt 1560
catgtccgt gacttgtgga gttggcaatg taccgcgat acgtctctgc aactcaccag 1620
tgcccagat ggtggcaag aactgcaag gcagcggccg ggaaacaaa ccctgtcagc 1680
gtgatccgtg ccaattgat ggccgctgga gccctgggtc cccttggtca gcctgcacag 1740

'ttacctgtgc tggagggatc cgtgagcgct cacgtgtttg caacagccct gagccccagt 1800
atggagggaa ggactgtgtc ggggatgtga cagaacacca aatgtgcaac aagagaagct 1860
gccctattga tgggtgctta tccaaccctg gttttcctgg agccaagtgc aacagcttcc 1920
ctgatgggtc ctggctcctgt ggctcctgcc cagtgggctt tctgggcaat ggtaccact 1980
gtgaggacct ggatgagtgt gctgtgggtca cagatatttg cttctcaact aacaaagctc 2040
cccgtgtgt caacaccaac ccgggcttcc actgcctgcc ttgtccacca cgctacaagg 2100
ggaaccaacc cttcgggtgtt ggctggagg atgctaggac agaaaaacaa gtgtgtgagc 2160
cagagaatcc atgtaaggac aagactcaca gctgccacaa gaatgcagag tgcattctacc 2220
tgggccactt tagtgacccc atgtacaagt gtgagtgcc aattggctac gcagggtgatg 2280
ggctcatctg cggggaggac tcagacctgg atggctggcc caacaacaac ctgggtgtgtg 2340
ctactaatgc cacctaccac tgcattcaagg acaactgcc caaactgcc aattccgggc 2400
aggaggattt tgataaggat ggaatcggag atgcttgtga cgaggacgat gacaatgacg 2460
gtgtgagcga tgagaaggac aattgccagc ttctcttcaa tccccgtcaa ttagactatg 2520
acaaggatga ggttgagac cgctgtgaca actgcccta tgtgcacaac ccagcacaga 2580
tcgacacaga caacaatggc gagggggatg cctgctctgt ggacattgac ggagacgatg 2640
ttttcaatga gcgagacaat tgtccatatt tctacaacac tgaccagaga gatacggatg 2700
gtgatggcgt gggtgaccac tgtgacaatt gtcctctgat gcacaacca gatcagatcg 2760
atcaggacaa tgatctcgtt ggagaccagt gtgacaacaa tgaggacata gatgatgacg 2820
gccaccagaa caaccaagac aactgccat acatctcaa ctccaaccag gctgaccatg 2880
acaacgacgg caaggggcat gcctgcgact ctgatgatga caatgatggt gttccagatg 2940
acagggacaa ctgtcggctt gtgttcaacc cagaccagga agactcggac ggtgacggcc 3000
gaggtgacat ttgtaaagat gactttgaca atgataatgt cccagatatt gatgatgtgt 3060
gccctgagaa caatgccatc actgagacag acttcagaaa cttccagatg gtccctctgg 3120
atcccaaggg gaccacacaa attgatccca actgggtaat tcgtcaccaa ggcaaagagc 3180
tggtgcagac agcaaactca gacctggca tcgctgtagg ttctgacgag tttgggtctg 3240
tggaactcag tggcactttc tatgtcaaca ctgaccggga tgatgactac gctggctttg 3300
tctttggcta tcagtcaagc agccgcttct atgtggtgat gtggaagcag gtgaccaga 3360
cctactggga agacaagccc agtcgggctt acggctactc tgggtgtgtca ctcaaagtgg 3420
taaactccac gactggtact ggcgagcacc tgaggaatgc cctgtggcac acgggaaaca 3480
cagaaggcca ggtccggact ctatggcatg acccaaaaa cattggctgg aaagactaca 3540
ctgcctacag gtggcacctg attcacaggc ctaagacagg ctacatgaga gtcttagtgc 3600

<210>	28
<211>	2397
<212>	DNA
<213>	Unknown

<220>

<223> Description of Unknown Organism:Unknown

<400> 28

tttttttttt catcctactt tgtttttattg ggcggttgatt gttacagggtc ccagcctgta 60
gacatctttt actccaattt cctgaataga tagcttttatt ccttcaagggt aatatagtgc 120
gggtggcttct ggctgagatg tttgctgttg ttttcttcat cttgtctttg atgacttggtc 180
agcctgggggt aactgcacag gagaagggtga accagagagt aagacgggca gctacacccg 240
cagcagttac ctgccagctg agcaactggt cagagtggac agattgcttt cctgtccagg 300
acaaaaagta ccgacaccgg agcctcttgc agccaaacaa gtttggggga accatctgca 360
gtggtgacat ctgggatcaa gccagctgct ccagttctac aacttggtga aggcaagcac 420
agtgtggaca ggatttccag tgtaaggaga caggctcgtg cctgaaacgc caccttggtg 480
gtaatggaga ccaggactgc cttgatggct ctgatgagga cgactgtgaa gatgtcaggg 540
ccattgacga agactgcagc cagtatgaac caattccagg atcacagaag gcagccttgg 600
ggtacaatat cctgaccag gaagatgctc agagtgtgta cgatgccagt tattatgggg 660
gccagtgtga gacgggtatac aatggggaat ggagggagct tcgatatgac tccacctgtg 720
aacgtctcta ctatggagat gatgagaaat actttcggaa accctacaac tttctgaagt 780
accactttga agccctggca gatactggaa tctcctcaga gttttatgat aatgcaaagt 840
accttcttcc caaagttaaa aaagacaagt ctgactcatt tggagtgacc atcggcatag 900
gcccagccgg cagcccttta ttggtgggtg taggtgtatc ccactcaca gacacttcat 960
tcttgaacga attaaacaag tataatgaga agaaattcat tttcacaaga atcttcacaa 1020
aggtgcagac tgcacatttt aagatgagga aggatgacat tatgctggat gaaggaatgc 1080
tgcagtcatt aatggagctt ccagatcagt acaattatgg catgtatgcc aagttcatca 1140
atgactatgg caccattac atcacatctg gatccatggg tggcatttat gaatatatcc 1200
tggtgattga caaagcaaaa atggaatccc ttggtattac cagcagagat atcacgacat 1260
gttttgaggg ctcttggggc attcaatatg aagacaaaat aaatgttggg ggaggtttat 1320
caggagacca ttgtaaaaaa tttggaggtg gcaaaaactga aagggccagg aaggccatgg 1380
ctgtggaaga cattatttct cgggtgcgag gtggcagttc tggctggagc ggtggcttgg 1440
cacagaacag gagcaccatt acataccgtt cctgggggag gtcattaaag tataatcctg 1500
ttgttatcga ttttgagatg cagcctatcc acgaggtgct gcggcacaca agcctggggc 1560
ctctggaggc caagcgccag aacctgcgcc gcgccttggg ccagtatctg atggaattca 1620
atgcctgccg atgtgggcct tgcttcaaca atgggggtgcc catcctcgag ggcaccagct 1680
gcaggtgccg gtgccgcctg ggtagcttgg gtgctgcctg tgagcaaaca cagacagaag 1740

gagccaaagc agatgggagc tggagttgct ggagctcctg gtctgtatgc agagcaggca 1800
tccaggaaag gagaagagag tgtgacaatc cagcacctca gaatggaggg gcctcgtgtc 1860
cagggcgga agtacagacg caggcttgct gagggcctct ggacacaggc tggaccagat 1920
gctgtggatg tcgacccctg cactgactat tggataaaga cttctttcaa ctaagagaag 1980
atgcaaatca gcacactttt ttctttgttc tgccagcttc caggcctaag actaggtttt 2040
gctgtctaca gccaaactatt ctattagtta caaaactcaa tcattttatt cagcaactgg 2100
atgttgactg ttaactagaa gctctgtcct acttacagca ctttgatca tcaaaaaaat 2160
aaagtaaaat agaaaactga gaaaactcaa tccatgacca gggagaactt acaggatgtt 2220
agagacaaaa caagcagaca cctgaaacaa tcaacgcccc ataaaacaaa gtaggatgaa 2280
aattctctta gttctttgat aacaatttgt tcaactatag aaacattatt aattggtagg 2340
gtaagcagac actctgaaac aatgagaaaa atactaaaaa ttgacttgag ttatttc 2397

<210> 29

<211> 4100

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism:Unknown

<400> 29

ggatccccc gctccgctac catcttcacg gacctcacc aggacgacga ctgagctccc 60
tcttcctcgc cgcggactgg ggcgaccctg ttgctgtgc gccgcgcgc gctcctgccc 120
ccacttcggc tcccgctcct gctcctgctc ccggccccac tctgttcct gttcctgttc 180
ctgttcctgt tcccggtcct gctccggctc ccggccccgc acccacctcc gctcctgctg 240
cgggtctcca ggcccagaca aaataaaaaa agatatattt ttccagtcgc tctctccgc 300
ccggtgtctt ctatggctga gggagtctgg ctctcggggc tctcgggtcg gctgggcggc 360
tcggctgggt ggctggctgg cgagatggac cgctccggcg cgcagcgtcc gcggtgctg 420
tgatgggtgg gcggagcgcg gaccggggat tatatacacg atgtgcatcc ataattgatg 480
ttgtttgaga aaaacaaagt cataaagtgg cactcagaca gcactttggc ctggcgcccc 540
gccaccatct gagggcccaa ccggggcccg cggttacatc accccacat ggaccatcac 600
ggccattag caccaattgg ccagagtgtc gggagccacc gctaattgca gtaacgcgcg 660
gctgccagac tgcaatttac cgcgcgatac tgcagtttac tgcagccgcg gtaaactgca 720
gtacgcggcg gccgcaggaa atctactgta gtatttggcg gggcgcgcg gtactgcaac 780
tgtagtaaac tgtagctga gtagagttac tgcagcgcca tcgggcccgt gtggccgcca 840
gggtaactgc accgcagta aatttactgc agccggactt tgtgcgctgt ggagaccgcg 900

ccgaactggg acccccccca ctcccccccg actccccccc gactcccccc cgactcccc 960
ccgactcccc cccgactccc ccccgactcc cccccgactc ccccgaggacg cgtccgcgcc 1020
tcgatgcgcc ccacgcgcgc ccgttcgcgt tcgccacgct ccagttgccc cgcgcccggc 1080
acgtggcacg tatttcccc ccgtaaatca agagggatta tgcgcatgtc tagtttatgt 1140
ctcaatttcc tctttccgga gataaaagcc gggacccccg cgcgaaaaa ggatacacca 1200
gcgcgatgt cgcgcgtcgt ggcggtgctg gtgttttttt cgcgcgcgcgt ggggggttct 1260
ggccccggcg tcgcgggaaa ccccggtggg ctcgatgcca tcttcgaggc cccggtcacg 1320
cccgccccc cactcgcca tctcggcgc gaggagctgg agtgggacga tgaggatcac 1380
ccgctgctgg acctcgagcc gcccggtgga tcacgctgcc atccctacat cgcgtactcg 1440
ctgcgcgcg acatgaacgc cgtcacgagc gtggtcgtga agccctactg ctgcgcgcg 1500
gaggtcatcc tgtgggcgtc tggcacgcgc tacctggtca acccctttgt cgcctccag 1560
gccctggccg tcggagagcc cttaaagtag gcggccctca aggagctcgg agaggtggcc 1620
gtgcacaagg actccctgcc gccgctgcgc tataatggag ggcccccgc cgagtaagag 1680
accctgcggc ctgcgcgcg gggcgcgcct cgtcgtgcct gccgcgcgcg ccgcttctgc 1740
ctctaagcc gccaccgcg ctgcagcagc agccccgcg ggggcgggg cgggggcctc 1800
gaagccggcc cgacccccg ccgcgcgcg gcccgogaag ggcacgcgcg cggcgtcggc 1860
ggcaacaaca gccacggggg ccgacgcctc cgcgccggcc cccgaccccg ggggcgccac 1920
gtgggacgcc ttgcgcgcg agttcgacgt ggcacctcg tggcgcgcgc tgcgtggagc 1980
cgagatcgcc aagccgtacg cgcgcctgct gctggccgag taccgcggcc gctgcctgac 2040
cgaggaggtg ctgcgcgcg gcgaggacgt gttcgctgg acgcgcctca cggcgcccg 2100
ggacgtcaag gtggtcatca tcggccagga cccgtaccac gggccgggccc agggccacgg 2160
gctggccttc agcgtccggc gcgggggtgcc gatccccccg agcctggcca acatcttcgc 2220
ggcggtccg gcgacgtacc cgacgctgcc cgcgcgcgc caccgctgcc tggaggcctg 2280
ggcggcgcgc ggggtgctgc tgcgaacac gacgctgacc gtgcggcgcg ggggtccccg 2340
ctccacgcc ccgctcggt ggcgcgggt cgtgcgcgc gtcgtccagc ggctctgcga 2400
gacccgcccc aagctggtgt tcatgctctg gggcgccac gctcaaaagg cctgcgcgcc 2460
ggacccgcgc cgccacaagg tgcacactt cagccatccg tcgcgcgtgg cccgcacgcc 2520
cttcaggacc tgccgcact ttggagagge gaacgcgtac ctgctccaga cgggcggggc 2580
ccccgctgac tggagcgtgg actgagtcgg gcgtgcgcgc acaccgccgg cggaggacga 2640
ggagggggga ggggggtgg atggacggag gagagcgat gatggagccc gcgctcgcg 2700
gcgccccggc cagcgcgctg ccggtcctgg cgtgctgcg cgagtggga tgggcgctg 2760

CCGACTCCCC

aggaggtcga gccctccggg ccgtgcccg aggacgcgga cgcgccccg gagagcgac 2820
cccctccccg ggagggggtg cgcgggagcg aagacggaga ggggggctg gaagacggcg 2880
aggaggggaa ggcgacggag aaggaggaga cggaagacga ggaagacggg ggggacgaag 2940
ggacgacgac ggcggcgggc ggcccgcgc gggcgagca cgtggagttt gacacgctgt 3000
ttatggctgc gtccgtggac gagctcggg gccggcggt gacggacacg atccgccggg 3060
acctggcgc ggccctggc ggccctcccc tcgcctgcac caagacgtcc gcgtttgcgc 3120
gcggcgcgcg cgcccgcgc ggcgccccg ggcgcgcca taaaagcctg cagatgttta 3180
tctgtgcgc cagagccac gcggcgcgcg tacgcgatca gctccgtcc gcggtgcgcg 3240
cccagcgcgc acgcgagccc cgcgcgcgc cgacgagcgg acgggcgcgc ccggccgcgc 3300
cggtgttcat ccacgagttc atcaccccc agccggtgcg gctgcaccg gacaacgtgt 3360
ttgcggcgcc atgagcacct tcggacgcgc gtccgtggc acggtcgatg actaccaccg 3420
gttctgcag gccaacgaga cggccgcgc gcgcctggc gcggcctccc gccgcgtctc 3480
caccggcggg ggcgagacgc gggccccgc gtcctgcgc ggccccccac acgatgaggc 3540
gcccctgcgc gccggcgccc tgggcaccgc ccgcgggcgc tcgcgccagc gcggcgcgac 3600
cgagccggac ccgtctacg ccaccgtcgt ccagcctacc caccaccacc accagcagca 3660
ccaccaccgc tctcagcatc cgcagcagca gcaacaacag cagcgggccc cagcgcgcgc 3720
cggcagcgtg cagcctcgc cgacggcgc ggacggacc gagtcgtgcg cggccgcacc 3780
cccgcgcgc cgcggcagcg tgcagcctc ggcgacggc gcccggcgcg tcagctgcc 3840
ccggccccg caacggagca tcaacgcctc gacgacggc gcccgcgcgc ccagctgcc 3900
gagacccgc cagcgcagcg tcaacgcctc ggcccgcgc gccgtcccct cgacggccac 3960
cctccgcgc ccccggaacc cgtcccggg cgggcgcgcg ccccccgcct catgctgtta 4020
tcgcgatcaa taaagggcga gcgcccacgg accagacaaa agacacaacc ggttcggtct 4080
ctctgtccgc gcacgcgcgcg 4100

<210> 30
<211> 38734
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<400> 30
gatcctcgtg accgggtaca ccgacgcctc ctggacgcc ctgttcgcca tcgcgggcg 60
ggtcgtcacc gacatcgggt cgatgctctc gcacagttcc atcgtggccc gcgagttoca 120
cgtcccgctg gtggtgaaca ccaaggacgc caccagcgc atcaacaccg gcgacctgat 180

cgtggtggac ggcgacgcgg gcacggtcga ggtcgtcgag agcgcgga cgcacccgca 240
gggcccggcc ggggcccgcg ggaccccggc cggagccacc accgactgaa gccggccacc 300
gccgcaacac cggaccacga cgcccccgc gaggggcgga ccacaccca gacgggagac 360
gacccgatga tccccaacca gtggtatccc atcgtcgagg cgcaggaggt gggcaacgac 420
aaaccgctcg gtgtgcgcgg catgggcccag gacctcgtgc tctggcgca catcgacggc 480
aacctcgtct gccagggcgc ccgtgcccg cacaagggcg ccaacctcgg cgacggccgc 540
atgaaggga acaccatcga atgccgtac cagggcttc gctacggagc cgacggtgcc 600
tgccgggtga tcccgcgat gggctccgag gcccgcatcc ccggctcgt gcggtaccc 660
acctacccgg tccgggagca gttcggcctg gtgtggatgt ggtggggcga cgagcggccg 720
acggccgacc tgccgcccgt ggcggccccg gccgaggtga cggacaaccg gaagctgtac 780
gccaccaagc gctggacccg cccggtgcac tacaccggtt acatcgagag cctgctcgag 840
ttctaccacg tgacctacgt gcaccgggac cactggttca actacatoga ctacctgctc 900
ctgtacggca ccccgagcaa gttcggcctc gacggccgcg agcggtagct ggccgccacc 960
cggatcacca accaccgggt ggagacggag gcggaggggc agaccatccg ctactccttc 1020
gaccactgcc agggaggacga cccaccaac accaccact acgtcatcac gttcaccttc 1080
ccgtgcatgg tgcacgtgca gaccgagcag ttcgagacca cctcctggct ggtgcccatt 1140
gacgaccaga acaccgagca catcctgcgc tggtagagt acgaacaggt caagcccgtc 1200
ctgaggttcg aaccgctgcg ccgtctgctg ccctgggctg ccctctacat ggagaagtgg 1260
gtgcaggacc cccaggacgt ccgcatcatg gaacaccagg aaccaagat cagcgccggc 1320
ggcgtgaaca agttcatccc cgtcgacgag atgaacgcca agtacatctc gatgcgcgcc 1380
aagctgatcg cggacgcctc ggccgcgcc tgcacaccgg cgcgggcgcc ggagcccag 1440
ccggaagcgg cggggcgggg cggatcagcg gcccggtcca cgggcaacgg caggggagcg 1500
gccggcggac gacgcggcac caagcccaag gaggacgccg ccgcgcgcc gtagaccga 1560
agacggggga cggacaagag agagcgagag tgagagatgt acggcgata cgacgcgtcg 1620
accggcccca aggccctggt gacggccttc aacaccgtcg ccgtggccgg cgcctgtg 1680
ttcctgttcg gcggcgcgga caccgtggcc gactggttcg gcaccgactt cgacgagcg 1740
gtgacctgc gccgggtcct gctggcgacc ctgtcgggtgc tctacctgt gcgcttcac 1800
gccacgaact tcgtgatgct ccagcgcaag atggagtggc cggagtcggc caccatcggg 1860
atctgggtcc tggtagatca cggcacgatg gcgtacttcg gcggcaccaa cgacgccggc 1920
gtgaçgcgt tcacctggct gggcgtcgtg ctgtacctcc tcgggtccta cctgaacacg 1980
gggtcggagt accagcgcaa actctggaag aagcggcccg agaacaagg caagctctac 2040

accgaaggcc tgttcaagca ctcgatgcac atcaactact tcggtgacgc cgtgctcttc 2100
 tccgggttcg cgctgggtcac gggcaccocg tgggccttcg ccatccccct gatcatggtc 2160
 tgcattgttcg tcttcttgaa catccccatg ctcgacaagt acctcgccga gcgatacggc 2220
 gaggccttcg acgagtacgc gtcccggacg gcgaagttcg tcccctacgt gtactgaccc 2280
 cgcccgtcac gcgcgtacgg cggcctcccc gggcgagggg ggccgccgta ccgggtggca 2340
 accacagatc ccacagatcc ccacagatcc ccacagagcc cctccacaga ccccctccag 2400
 agatccacag atccccctca cagatccgag acgaggcacg tatgaccgga gacattccct 2460
 tcggagaggc cgaggcgtcc ctgaccgcg aggtgctgcg cgaggctctg gccggcgggc 2520
 ccgaggcgtt cgcccggctg acctccgacg agggcgccgt cgacgacttc ggcttcgacc 2580
 cggagctgac cgacgactac ctgctccccg ccttgcgcct gctgtacgag aagtacttcc 2640
 gggtcgacct ggagggactg gagaacgtgc cggccgaggg gggcgactc ctggctcgca 2700
 accactccg caccctgccg ctgcagccc tgatgctcca ggtggcgctg caccaccatc 2760
 acagcacgca ccgcaggctc cggttgcctg ccgcgcacct tgccttcgac ctccccgtcg 2820
 tccgtgacct cgcccgaag gccggccacg tacgcgcctg ccccgagaac gcgctgcggt 2880
 tgctcggctc cggcgaactg gtcggcgta tgccggaggg ctacaagggg ctcggaagc 2940
 ccttcgagga gcgctaccg ctgcagcgt tcggccgggg aggttcgcg gcggtggcac 3000
 tgcggtcgcg gcgccccatg gtgccgtgct cgatcgctgg ccgcgaggag atctaccga 3060
 tgatcggctc ggccccacc ctggcccga tgctgaagct gcgtacttc ccgatcacc 3120
 cgaccttccc gctgctgggc gcgctgggccc tgatcccgat gccgaccaag tggaccatcc 3180
 gcttcggtgc cccgatccac acggacggct tccccgagga ccgcgcggag gaccgcgtgg 3240
 tggtcgagaa gctcgccggc gaggtgaagg acaccatcca gcacacgctc aacgagatgc 3300
 tggagggccg cggctccccg ttcgtctgag ggccgcggct cccggttcgc ccgagggcgg 3360
 cggctccccg ttcgcccag gaccgtccct ctgctccggg gcccgcctc agccccccgc 3420
 cgacgatccc cggcggcaga tgctgcgaac gctggcgaag gccagaacgg cgaggccgac 3480
 gagcgtgacg ccgcgcgcca ccagctccgc ggacagatgc atgggatctc cctcaggggg 3540
 acgacggacg gtgatggtca tatagccatg cgaacccgc cgtccgccc atccgcagcc 3600
 gcaccgcccc gcgaattcac ccgtagagca gaccggtgcg gccgaggagg ggtggcgatt 3660
 ggggtggctgc gcgttcgaac gcttacgat ctctgttgtg tccaaactga ccgacgtgcc 3720
 caagcggatc ctcatcgggc gcgcactgc cagcgaccgg ctgggtgaaa cgctcctgcc 3780
 gaagcgcac gcgcttcccg tgttcgcgtc cgaccgcgtg tcctccgtgg cgtacgcgcc 3840
 cggcgaggtg ctgctcgtcc tgtccatgc gggcgtgctg gcctaccact tcagcccggtg 3900

gatcgcggtc gcggtcgtgg tcctgatgtt caccgtggtc gcctcctacc ggcagaacgt 3960
gcacgcctac ccgagcggcg gcggcgacta cgaggtggcc accaccaacc tcgggcccac 4020
ggccggtctg accgtcgcca gcgccctgct ggctcgactac gtccctgaccg tcgcggtctc 4080
catctcctcc ggcacgcaga acctgggctc cgcgatcccc ttcgtcgtcg agcacaaggt 4140
cctgtgcgcg gtgcgcgtga tcctgctgct cagctgatg aacctgcgcg gggtcagggg 4200
gtcgggcacc ctgttcgcga ttccgacgta cgtcttcgtc gcgggctct tcatcatgat 4260
cgtgtggggg gcgttcgcg gactggctct ggacgacacc atgcgtgcc cgaccgcgga 4320
ctacgagatc aagccggagc acggcgccct ggccggcttc gcgctgatct tcctcctcct 4380
gcgcgccttc tcctccggct gtgcgcgct caccggtgtc gaggcgatct ccaacggcgt 4440
cccggccttc cgcaagccca agtccaagaa cgcggggaac accctcgcg tcatgggtct 4500
gctggccgtc accatgttct gcggcctcat cgcgctggcc gccgcgaccg acgtgcggat 4560
gtcggagaac ccggccaccg acctcttcca caacggcgctc gcggtcggcg cggactacgt 4620
ccagcaccgg gtgatctcgc aggtcgccga ggcggtcttc ggcgagggca gcttctctgt 4680
catcgtgctg gccgcagcca ccgcgtggt cctcttctc gccgccaaca ccgcgtacaa 4740
cggcttcccc ctgctcggct cgatcctcgc ccaggaccgc tacctgccgc gccagctgca 4800
caccgcgggc gaccgcctgg ccttctccaa cggcatcgtg ctctcgcgc gagccgccat 4860
gctcctggtc gtcgtctacg gcgccgactc gaccgcgctg atccagctct acatcgtcgg 4920
cgtcttcgtg tccttcacgc tcagccagat cggcatggtc cgcactgga accgcaacct 4980
ggccggcgag cgggaccagt ccaagcgacg ccacatgatg cgtcccgcg cgatcaacgc 5040
cttcggcgcc ttcttcaccg gcctcgtcct ggtggtggtc ctggcgacca agttcacgca 5100
cggcgccctg gtgcgcgtgc tcggcatgtg catcttcttc gcgacctga cggcgatccg 5160
caagcactac gaccgggtcg ccgaggagat cgcggccccc gaggaccccg aggaggcaca 5220
gagcgacgac atggtgcgcc cctcacgcgt tccctcgtg gtccctgatct ccaagatcca 5280
ccgccccacg ctccgcgccc tcgcctacgc caagctgatg cgtcccgaca gcctggaggc 5340
gctcagcgtc aacgtcgacc cggccgagac gaaggcgctg cgcgaggagt gggagcgccg 5400
cggcatcgcc gtaccgctga aggtcctgga ctgcgctac cgcgagatca cccggccggt 5460
catcgagtac gtcaagagcc tgcgcaagga gtccccgcgc gacgcggtct cggatgatcat 5520
ccccgagtac gtggtcggcc actggtacga gcacctgctg cacaaccaga gcgccctgcg 5580
cctcaagggc cggctgctgt tcacgccggg cgtcatggtc acgtcgttcc cgtaccagct 5640
ggagtccctc gagggcgcca ggcgccggg gcgcaagcgc caggactgga gcgcgccggg 5700
tgcggtgcgg cgcggaccgg cccaccacca ccaggaccgt gaccgtacga aggactcctc 5760

ctcgtccacg tagactggac ggctgttgtc cctgtcatcc ccccgttctc tggagtcacc 5820
ccgccatgca ggcagaaccg aagaagtgcg aggcggaaca gcgagcggtc gcggagccgg 5880
tctcggagcc ggtctcgctg gtgggcgagg agtacgaggt cgaggtcggc cccgtcgccc 5940
acggcggcca ctgcatcgcc cgcacgtccg agggccaggt gctgttcgtc cggcacacgc 6000
tgcccggcga gcgggtcgtg gcccggtga cggagggcga ggaggggtgcc cgcttcctgc 6060
ggcgggacgc ggtcgagatc ctggaccct ccaaggaccg catcgaagcc ccctgcccct 6120
tcgccggccc cggccgctgc ggcggtcgc actggcagca cgccaagccg ggcgcccagc 6180
gacgcctgaa gggcgaggtg gtgcgcgagc agttgcagcg cctggcgggt ctcaccccg 6240
aggaggccgg ctgggacggc acggtgatgc cggccgaggg cgacaagctg ccggccggcc 6300
aggtcccgtc gtggcgcacg cgcgtgcagt tcgcggtgga cgccgacggt cgcgcccgtc 6360
tgcgccgcca ccgctccac gagatcgagc cgatcgacca ctgcatgatc gcggcgagg 6420
gcgtcagcga actgggcacg gagcgccgtg actggcccgg catggcgacg gtcgaggcga 6480
tcgcggcgac gggctcccag gaccgccagg tcctcctgac cccgcgcccc ggcgcccgcc 6540
tccccatcgt cgaactggac cgcgcggtct cggtcatgcg cgtcggggag aaggacggcg 6600
gcgtccaccg cgtccacggc cgcgccttcg tcgcgcgagc cgccgacgac cgcacctacc 6660
gcgtcggctc cggcggttc tggcaggtcc acccgaaggc cgccgacacc ctggtcaccg 6720
cggtcatgca gggcctgctg ccccgcaagg gcgacatggc cctggacctc tactgcggcg 6780
tcggcctctt cgccggcgcc ctggccgacc gcgtcgggga ccagggagcg gtcctcggca 6840
tcgagtcagg caagcgcgcc gtcgaggacg cccgccaca cctcgccgcc ttcgaccgcg 6900
tcgcgatcga gcagggcaag gtcgagtcg tcctgccccg caccggcatc gacgaggtcg 6960
acctcatcgt cctcgaccgc ccccgcgccg gcgcgggccc caagacggtc cagcacctct 7020
cgacctggg cgcccgcagg atgcctacg tggcctgcga cccggccgcg ctggcccggg 7080
acctggggta cttccaggac ggggggtacc gggcgcgac gctgcgggtg ttcgatctgt 7140
tcccgatgac tgcgcacgtt gagtgcgtgg cgattttgga gcccgccgca aaggggctct 7200
gacctgcatt tttcttggct ggatcaggag cggcctgttg cgctcgacct gttctccaaa 7260
gcgcacgacg tagagcttgc ggaccgctcg tgaaagccgc ctgacctggc gttgcacgag 7320
cggcgccgcg atgtcggcgt ggtcgccct tctcctggcg cgaagggaaa ccgaaggtct 7380
tgacgctcgg gtgacgtat ttctgaaggg tcgtcaccga ctggggaggc agggccctgc 7440
ctctcgcgcc cgatgaagca ggttctctct gctccaggta atcgtcgagg gtgccctgac 7500
ggatcaggta gacggtcagg gaccgcaggg tgcagggcgt cgacgccag gtcgaggatc 7560
atcagggcgc tgtcatttgt gatggcgaag gcgcgatca caccgtcgac ggaacagggt 7620

gcgttcagga gtctgtgcgg gcgccgcacc ggcacggtct ggaagctcgg ctccgaccgc 7680
agctcgccac cagtccgaga ggagccgata ctgtccggtg ccgggtgacc ctctgtgcaa 7740
gcgttgctgc ccccgctcgg cagaccgggg cagcaacgct tgcacgatcg gccggtactc 7800
aacgggatcg tgtggagttt cggaccggaa cggcttggca ggacgtgcc gagcggtagc 7860
gctcctgggc cacattgcac acccgcttcc gtcgatgggt gaaaggcggc acctttcagt 7920
gaaagggggt tccgcccccc ccggggacct tgcgccacc gtcgccgacc ggctgatgaa 7980
ccggctccgc gctcccgcca ccaacctgac ccgacgtgag accgaagtcc tctcaccggt 8040
cgccgacgga ctgtccgacc aggccatcgg cgcacgcctc cacttgaccg aaggcaccgt 8100
cgatatcacc tggcctgcat ctatgccaac ctcggaaccg actcgcgcac cgccgctgtg 8160
gccactgtca ccgccatcga cgacctcggg ctcatccgcc gctgaacagt atgtggtggg 8220
cgggtgtttcc gttctccacg acttcagcgg cgtccggagt tgtggtgctg gctgggcttg 8280
gtgcccgtc ctctgaaccc atgtgaacgc ccacggccag ttcgagccgg acacgcccc 8340
cggacctggc ctccgccgg gccagaatgc ccggcccctg cacctggtct gcctacctgt 8400
acaggcgagg gcggtccctc ggagccactg cctgtaactc cgagggggccg cccttgggccg 8460
actcggcgggt caccgcgga cgcgtgcggt caggaggcac cgtctgcgtc atcaggcgcg 8520
gctcggccga gcgagttatt ccggcaccgc tgggaccaga aatgtcagcc ctgcgtgacc 8580
gcttcgaaga ccgtgacgcg gttgtcgtc gagagcgagt ggggtggggtc ggcgtgcgcg 8640
gcgcggaatg cctccgacga ggtgtaggcg gtgaatgcgg cgtcgtcctc gaagttgagg 8700
acggccaggt agccgtgtgc gcccttgccg ggacgcagca gccgtgcgtt gcgcagcccc 8760
ggcacgttg aaaggtggc gcgcatgctg gcggtgcagt tgttctcgaa cgcgccctgg 8820
gcgggcgcgg cgacggtgaa ctcggtgacg gcggtgctca tttctgtctt ctctcggttg 8880
ttggtgtgat gtcggtggct gtcccggccg gccggggccc gcacggcgat ggcgatgatg 8940
tgcaccgcgt gtccgatcga gttccgttgc ggggtgcggt tacagggctg gagttgggct 9000
ccggctccgc gtcggctgag ggagcctgcc tgtgcggcgg gccagattt cgaacgcgat 9060
agtcatgaac ggggggtacg cggccagcag ggcaagatc gttgtccggc ccagccgcca 9120
cttcagccgg atcgcgacca ggacggtcag ggacacgtag acgatgaagg cggcgccgtg 9180
gaggtgccc aagatccgta cggcgagttc ggtggtttcg gggatgtact tgaggtacat 9240
cccggccagc agacctgcc acgtgcacgc ttcgatgatc gcgatccagg tgaacgcgcg 9300
cagcagacgg ctggtgccgg tttcggcagc ccgtgcggcc ggcgcgtcgg cggaaggcgg 9360
ttcggaggtg ggcgtggagg gtgtctgcgg ggtgcctggg cgtgcgggcc acagggcgcg 9420
gttgccgagc aggcggacga tggcggggac caggagcggg cggatgagga aggtgtccag 9480

caggatgccg caggccatgg cgaagccgaa ctggaacagt tcgcggatcg gctgggtcat 9540
caggacggcg aaggtcgccg cgaggatgag gcccgcgag gagatgacgc cgccggtgcg 9600
tgtcagtgcg gcggtgatcg ccttcgctgg gggctgggtg cgcagttcct gcttgaaccg 9660
gctcatgatg aagatgttgt agtcgacgcc gagcgcgacg aggaagacga agatgtacgc 9720
ggtagacgcg ttgccgatgc cgtcgtcacc gaggacggtc acggtgaaga agtggtggc 9780
gccaggggtg gccaggaacg acaggagcag ggtcgcgacc aggtagagcg gggcaaggag 9840
cgagcggagc agcaggacga ggaccacggt gacgatggct aggaccagca gcacgatgag 9900
ggtcgtgtcg cggtcgaggg cgagcgggat gtcggcgctt tcgcggtct cgccgccgat 9960
gagcacctg gcgtcctgga cgccggcggc ctgggctgcg gattgtgtgg cctgcttgag 10020
gggaccgatc gcgtcgagt ccttgagct gtaggggtcg aggtcgagga tgacgtcgta 10080
gaagacggtc ttgccgtcct tgccatgcg ggggtctgcg acacggctga cgtgatcggc 10140
gtcgtgagc gcggtggcga tgcggcggg tgcggggctg gagcgcaggt tgcctggga 10200
atggacgacg acggtactgg gggcgatct gccgggccg aattcctccc gaatgaggtg 10260
ctgtccgtgc tccgactcgg tggcggcgc gaagccgctg aggggtgtga agctctcctg 10320
gtagccgagc agtcccgcgc tcagtaccac caggagtgcg atcacggccg aggccacctt 10380
gacgggggcc cgtgcgacca gggcgcgat gcggtgccag atgcctgcgc cgcgactgcg 10440
ttcggcggcc ttgtccacgc ccccgggcca gaagacgctc ctgccagca ggaggaccag 10500
ggcggggatg aaggtgaacg ccaccagcgc catgacggcc acgccagag cgaggtacgg 10560
tccgaagccg tgaagtgccg gggagacggc cagcagcagg gcaaacatgg cgagcacgat 10620
ggtcgagggc ctggcgagga cggactcggc ggtgcggcgc acggcgccct gcacgcgcg 10680
ggcgcggtct ggctcgtcga gcagggtctc gcggtagcgg gcggtgatga tcagcgcgta 10740
gtccgtgccc accccgaaca gcagcacggt catgatcgag gcggtctggg agctgaccgt 10800
gatgactccg gcgtccgca gaatcgcgcc gagagtctcc gccacgcgca tagccacgcc 10860
cacggcaaga agcggcacga gcgccatcag gggcgagcgg tagatcgcca gcaggatgat 10920
caggacgagc acgacgggtg ccagcagcag gactttgtca ccgccgctga agaccttcac 10980
gggtgcggtg gcgatcccgg cggggccggt caccgcgacg tcggcgggcc cggcccggtc 11040
ggacgcgagg gcacgcacct cgtcgaccgc attctggaag gactcgtccg aggggctgcc 11100
ctccatgggc acgatgacca gctgagcacc gcggtcctgc gagaccaact cggccgcagc 11160
gtcgggagcg gtcaccgtgg agaccacgct cagcagatgg tcgggtcggc tggttccgga 11220
aagggccgag gtgatggcgg cgaccgattg cgtggcgctc ttcgcgcggt cgggtgccctt 11280
gccgcgacc acgatgatcg ccggcgtcgc gtcctggccc ggaagctggg cgcgagcag 11340

atcacggggcc ttcattgaggt ccgagggcggc gggcggcagg ttggcggagg cgttgtcctc 11400
gacggattcc agggccgggg cgaccccggc gaggaggccc gcgatcagga cccagaaggc 11460
caccaccacg gcggcgcgct tcttcgatcc caggagacat cgcagcagag cgggggagtt 11520
catcggttgc atcgggcagc cttcggcagg aagtacggac agaacttagc gacagggtgt 11580
ctctaagttg cgtcaagcta acacgcccc tcggcctctc gggcgtgggg gtaggttggc 11640
gggagacggc acagcgtccg aggtgaagcg gagaaaatgc ccaagattga agccggcagc 11700
gtccgggagc accgggcgca gcggctcgcg cagctgattg acgcggccga ggagctcctg 11760
gaagagggcg gtgccgaagc cctcacagcc ggagcggttg ccgcgcgagc cgggatcgcc 11820
cgcaacagca tctaccgcta cttcaactcc atcgacgacc tgctcgaact cgtcgtcacc 11880
cgcgaattcc ccgcctggat cgacgcagtg gagcaggcca tcgcggccga gaccacacc 11940
gccgcccagg ctgccgccta cgtcagggcc aacctcgaa aggcagctcg cggcacccac 12000
ggctggcggg ccgcgctcac gcgcgactcg ctctccccgt cggcgcggga gcgggtgagg 12060
aatctgcaca tctcgtaca cgaggcgctc gcccggtcg tgcggaact ggggcagcca 12120
cagcccagc tgaccgtggc ggtggtcaa gcagtcgtcg atgctgcat ccgcagaatc 12180
gaccaaggcg acgatctgac aaccgtgtcc gacttcgcg ccggagcgac gcgtcgactg 12240
ctcgcggatg acgacttgcc acatcaccgc tgacgcaccc cgtccaggcg gctcgcaggc 12300
ccgtcgacag cgaagcccc gcagaacgag ccgatcttg agccgcaccg gagcgtgacg 12360
cagaccgctg gtggctcatg cctcgtctca tcgatcttg ccaccggcg gccgaccggt 12420
cagtgcgga cgcccatcga ttacgacgtc cacgaccga accagcgctg tcagtgcgtt 12480
gacgttcgtg gtgcgtcat tggtcaccgc gcctctgggg gtcaccagcg cttttagggc 12540
acgagactcg acggtggcg gtgataccag gcaggcatca tgaccttatg gcgatgacac 12600
tccggcttcc cgacgacctg gacacgaagc ttacggagcg ggctcgtggg gagggttgca 12660
gcaagcagga acttgccatc ggggccattc gtgatgccc ggaccgggcc gagctgaagg 12720
tcgatgacgt tctggccggt ctgatggaca gcgatgcgga gattctggac tacctgaagt 12780
gagcggcgtg cgctacctcc agatcgacga gatcctggcc atcgtgcgca cggtaacgg 12840
tgccgagcac agcgtgcgtg acatgggcct ccttgtgtcg gcgatcgaa gggcccgac 12900
gaacgtcttc ggagccgagc tgtatccac cctgcacgag aagccggcg actactgcac 12960
tcgctgccc gcaatcacgc gctgatcgac ggcaacaagc gcaccgctg gttcgccatg 13020
cgctcttcc tcggttcaa cggcgccagc gccagtaccg tccgccccca cgggcgccc 13080
ccgacggac ccgaggcccg tcacgcgctg ctcaccagca gccctctcct cagcagcgca 13140
ctgggaccgg cgctgctgat cgccctgtcc gccctgggg ttctcgccct ggacacggcg 13200

ttgtgggtct cgggtggtcag tgaggtggcg gcgccggccc ggtggggctt cgtgggcggg 13260
ctgcgtgtcg gcgcggggcg tctgggagcc ctgatcgccg gcgtactcaa cgccgtgatc 13320
ggtcttggcg tggtcgctgt caaactcatc gccgggcact gagagggcct gtggtggtgt 13380
tcgcggagcg catacggtag cagaccggtc ggaatcctcg gcgccgcggc cggagcggtc 13440
ccggcacccc ggccaacagc cgcacgtccc cgtccggtag ggtcaggtcc gagccgtcag 13500
atccaggta gtcgccacag gcgcagaagc ccgggtgccg ccaccgcgta ctggccgccc 13560
cccacgtcct ccccgacac cacgaagtcc ttggcctgcc acagcgggac gacgggcacg 13620
tcgcgggcga cgatccgctg aagggtctcg aggtcggctt cggcgtcgct ccggtcggcg 13680
aagcgtgac tgctcgtgat cagccggtag gcggccttgc tgccgtacct cgtcgccatg 13740
gtgccgtccg tgccgacgag aggaccgccc aagggtgtcg gatcggggta gtcggcgacc 13800
cagccgacgg cgtaggcgtc gagctctccc tcggcccagc tcttctggaa ttcgtcccat 13860
tcatatcctc tgagggtcac cttgaacagc ccgtcggcct ctagtgtctt tttcacctcc 13920
gcagcctcct cgtgggctga tccgcgtccc gccgcgtaac cgtaggtgaa agacagcggg 13980
atttcctcac cggcctcgac gaggagggcg cgtgcctttt cggcgtcctt gtgagggtag 14040
ttgtcgaaga aggaggtggt gtggcccgtag atgctcgtcg ggatgagggg gtagagcggg 14100
tccacggttc cgtcgtagac gtcgtaggaa atccgggtccc tgtctatcag ccaggccgcc 14160
gcctgccgtg cgcgtctgtc gtgaaacggc ttgccgcggc ggttggttag gtacaggttt 14220
cgagtctccg cgctctgcgc ctccgtcacg cgaagccccg gatcgtcggg gttcagatcg 14280
gcgagcattt cggggggaag ctgtctgagg gcgacatcga tcgggtggga tatccaggcc 14340
cgggcgagtg agtcgggggt gtcgtagaag tggagttcga tcggccggcc ggtgttctcg 14400
gcggcgccct tgtaccgagg gttgggcgag agggagatct tctcgccctt cgcgtaggag 14460
acgacgccgt acggtccggt cccgtcgatc cggccgtccg agcgcaggga gtccgccggg 14520
tacgtggtcg agtcgacgat cgagcccgcc ccggtcgtca gcttgaaggg gaacgtggcg 14580
tccggtgcgg tcagtcgga agtgacggtc cggtcgcggg cgtccatcga ctcgatggtg 14640
tccaggaggg acgacggccc cacgtcggaa tctatcttct tgaccggttc gaacgagaac 14700
cggacgtcct tggctgtcat tctgcgtccg ctggagaagg tgatgtcatc ccgcagccgg 14760
catcgatagg tgcgtaggcc ggaatcgggt aaggagcagc tttcggctgc gtcgggaacg 14820
ggctccgcca ctccgggctc cagggtcagc agtgtctgga agacattgct gtacagagtg 14880
gtogagccgg agtcgtagcc gccggccggg tcgagtgcgc tcggcggttc cgtcgtcccg 14940
accttgatgg tgggtgccctc ctggctcgtc gtcgggtaaa gcagcagacc ggctgccagt 15000
gcggtggcga tcaccgtggg tgtgatgacg gacgcacgga tgtgcgcacg aataggtctc 15060

atgaggctcg tcctcgcaag atcgagacga acaggaattt tcgtaccctt gggaggagag 15120
tgcgtcggcc aagtatgcgc aggcgtcgct tccttcggag ccgacggca cttccggaac 15180
gaagtcttat gactgacacg gtggaactgc tatgccccgt tcggcgagag gggccgagc 15240
ggtcggcacc ccctctcagc agccgttcgc cctcgtctcc ggtggtcctg cggaccgct 15300
tgcgcggttc ccgcccacgg tctactcct cgatgccatt ccctgtgcaa tgtcacctgt 15360
gccatgttcc gtgttgacgg gcgtggccat gccaaagtcg gaggtcgctt gtcttcgctc 15420
aggtggcagt gcggtactcc gtttcccacg tcctctcccc cttcagtcgg ccgtgctccg 15480
cacggccgga tccctcatgg gaggcgtgt gagaaagtca ctggtacggc gaggtctggg 15540
ggcggcgctg ccgctggccc tgaccgtcgc catgagcgtg ggcctgctgt cgcagccggc 15600
cggcgacgac gggaaacacc ggtccgtcgt gcacgtcgcg gcggacgacc cggagcacgc 15660
gggacccccg ccgctcggc agtccccac cgccgagacg gagcacgtc cgcagggagc 15720
cacgagggcg tccgagcttc cgcgcgtggc cgcgagtaag gacgcgtca aggagtgta 15780
cggcaagacc gcgaaggcgc cggctcgtcc ctcgaagtcg acggacaagg cggtcgcccg 15840
caagaccggc aactcccgtg cgcgtgcgc cgctgcaac gtctccgact tcaccagccg 15900
gagcgccggc gcgctggtcc agcagatcaa ggcgtccac accgactgc tcaacaccct 15960
gttcaacctg accgggaacg acgcctacta cgcttccgt gagtcgcaga tgacctcgt 16020
cgctacgcc ctgcgcgacg gctcgacgtc ctaccgggc aacgcctca ccggtatgcc 16080
gcagctcgtg ctctacctgc gcgcgggcta ctacgtgcac tactacaacg ccggcacggt 16140
gggcacctac ggcagcagcc tgcagaccgc gatacgccg gggatcgacg ccttcttcgc 16200
cagcccgac tcccgcgacg tcaacgacgc caacggcgag acgctcgccg aggcgctcac 16260
gtcatcgac agcgccgagg agaacgccc ctacatccac gtcgtcaagc gactgctggc 16320
ggactacgac tccacctgga actcgtcgtg gtggatgctc aacgcgtca acaacgtgta 16380
cacggtgacc ttccgcggtc accaggtgcc cgcgttcgtg agtgccgtgc agtctgacct 16440
cggcctgatc gacgcgtctt acaacttcgc gagcgccac ctcgcgtgc tgggaacgga 16500
ccagtcctac ctacgctga acgcgggacg tgaactcggc cggttcctgc agcattccgc 16560
actgcgtcc aaggtcagcc ctctggccg cgccgtgctc aactccagct ccatcaaggg 16620
ccggacggcc ccgctgtggg tcggtgtcgc cgagatgacc gactactacg acaaggccaa 16680
ctgctcctac tacggcacct gcgacctca ggcacaactg gcccgctccg tcctgacggt 16740
gacctacca tgcagctcca gcatcaccat caaggcgag cagatgacct cggcgagct 16800
gtcctccagc tgcagcagcc tgcgcaacca ggacgcctac ttccacaacg tgggtccgtga 16860
caacggcccc gtcggaacg acaacaacg caccatcgag gtcgtggtct tcgactccag 16920

caccgactac cagacctacg cgggcgcgat gtacgggatc gacaccaaca acggcggcat 16980
gtacctggag gggaaatccgt cggcgggccgg caaccagccg cgcttcatcg cctacgaggc 17040
cgagtggctg cgtccggact tccagatctg gaacctcaac cagagtaga cccactacct 17100
cgacggccgc ttcgacatgt acggcgactt caacgccaac atcaccaccc cgaccatctg 17160
gtgggtcgaa ggcttcgccg agtacgtctc ctactcctac cgcggcgtcc cctacaccga 17220
ggccacgacc gaggcggggc gtcgcacgta cgcgtgagc accctgttcg acaccacgta 17280
cagccacgac accacgcgca tctaccgctg gggctacctc gccgtgcggt acatgctcga 17340
aaaccaccgc gccgacatgg acaccgtcct cagccactac cgcgcgggaa actggaacgc 17400
cgcccgcagc tacctgaccg gcaccatcgg caccgcgtac gacaacgact ggtacacctg 17460
gctggcggc^c tgcgcggccg gcaactgcgg tggcgggggc accaaccgc ccgggaacca 17520
ggcgcccacc gccgcgttca ccaccgccgt ccagggcctg aacgtcacct tcaccgacca 17580
gtccaccgac gccgacggca ccatgcctc ccgtcctgg agcttcggcg acggcaccac 17640
ctccacggcc accaacc^cgc tcaagacgta cgggtcggcc gggctcctaca cggtaagct 17700
gaccgtcacc gacgacaagg gagccaccgc caccgccacg aggacggtca ccgtcggcag 17760
cggcgaggc ggcggcaccg aatgcaacgg gaccgacacc cgggaactgg gccagaactg 17820
ccaacgcggc aaccagtccg ccaccaccgg caactacgcc tacctgtacc tctacgtccc 17880
ggccggcacc acccagctga agatcaccac ctccggcggg acgggcgacg cggacctgta 17940
ctacagcacc agcggctggc ccggcaccac gagctacacg cagcgggcca cgggagccgg 18000
caacaaccac accctgacca tcaccaaccc gccggccggc gccaaactaca tcagcctgca 18060
cgccgtcagc agcttcagcg gcgtcaccgt gagttccgcc tactgacca cggctccgca 18120
ccaaggcacg accctcacga cggcccggg cggctctccc cggcccgggc ggcgtccggg 18180
gcggcggcag gggggagacc tccgtcgccc cggaccgaga acacatgcc cggccgcaca 18240
cgggcatccc tacctcccag gaggcagagc gtgaagtcac taccgcacg caggcgacgc 18300
cgcgccatgt ggtccctcat catgtccgtc ggtctcacct gcgactcgc cacaccgcc 18360
gtcggcagcg gtgaccaggc cacgtcacgg ctacgcgct cgcacacaggc cgcggccggc 18420
caactcgcag cggaccagca catctccacc caggaggcac agcggcgcgt actgcggcag 18480
gagcggctca cggcgctgc aacagcgctg cgtgagcgcc tgggttccc cttcgcagga 18540
gcctggatcg accagaagca cggcggcagc ctgaccgtcg ccgtcaccg gtgcacggcc 18600
acggccctcg tcgaggcccg gtccgctcag gctcaggcac ccgacacgac caccgtcgtc 18660
gtgcacgca gcctcgggca actcgaccgc atgtccgcag gactggcca ccgtatcgc 18720
gcagcgaaca agggcgccgc ccacggcctg cagtccgcgg tgggtgtgca ggacaacaag 18780

gttcgtcttg accctgccacg gggcaagacc ctcacccccg cccagcacgc agtcgtggag 18840
tgggcgaagc ggaccctcgg cgatggcctc gaggtcagca cctacgcgca tgcctccgaa 18900
cccttctact gcggcggcca gtactcgtgc gacccccgc tgcgctcggg cctggccatc 18960
tacggcacga acgtccgctg ctccagcgcc ttcattggcg acagcggcag cagctactac 19020
atgatgaccg ccggccactg tgcggaggac agctcgtact gggaggtccc cacctacagc 19080
tacggctacc agggggtcgg tcacgtcgcc gactacacct tcggctacta cggcgactcc 19140
gcgatcgtca gggtcgacga ccccggttc tggcagccgc gcggctgggt ctaccctcgc 19200
accgcgcatca ccaactggga ctacgactac gtccggccagt acgtgtgcaa gcagggctcc 19260
acgaccggct acacctgcgg gcagatcacc gagaccaacg caacggtgtc ctaccaggc 19320
cgcaccctga ccggcatgac ctggtccacc gcatgcgacg ctcccgggtga cagcggcagc 19380
ggcgtctacg acggctcaac ggcccaacgc atcctcagcg gggggccgaa cagcggatgc 19440
ggcatgatcc acgaaccgat cagccgagca ctggcggacc gcggggtcac gctgctggcc 19500
ggctaagcag cccgggcgga ccgtgagtag gccgccccgg tcacatcacg aggacgtcga 19560
ccgccgcacg cgcggtcggc gtctttcccc gtgctcgcgt ccgtccgcca cccagcggac 19620
tgggggctgg ggctggtcac gtcgtgcacg ccgcagcgcg gtggaacccg tcggccgatt 19680
agaccgtacc ggggagcgcc tttccggctc cgttcgtggg acgggctgggt gcgtatgcgc 19740
gcgtcaccca tttctggaag tgcggagcct gcgacagcag ttgccagtgg gcgcgtacgg 19800
catgatggtg caccacctcg acggccgacg cctcgaccga atcccgcgcg cagacgagca 19860
gatgccgctg ccacagcggg tccccgcga ggggtttaac cagtactccg cccaccgggc 19920
gcatggtggg ctggacggcg gccaccccca gaccttggt gatcatcgac tgcagttggt 19980
cgagcatgtg gaactcgtgg gtgacggcgg gcctgaatcc cgcggcccca caagcgtcgt 20040
agaaggcgcc gggccagccc accccgtcgt ccgcggagac gaaccacgcg tcctccgaca 20100
ggtcggccaa ggacacctcc agccggtgcg ccagtgggtg atcggcaggg gtggccacga 20160
acaccgggac ggttctgata gtcggtgggt ccagcttcgg agagtgtcga agaggcagcc 20220
ctgggtagtc gcaaccagc gcgacgtcga gtcgcccgc ctctaggaga tcgatgagtt 20280
ctccggtcgc gtacacactg ctgaccgaga cggtcagatc ggggcaggct tcacggagga 20340
cgctcgagcaa ggtgggtacc accggtgtgt tgatggcccc gaggcgaagc cgacgtgtcg 20400
ccccggacga gcggggaggc cgcagccgtg cgagattgtc ggagagcgcc aggatctccc 20460
gggcccggcc gacgacctgg gcgccgtagg cggtagctc caagcccgcg ctgctgcgca 20520
ggaagacccc ctgcggcagc agtccctcga tgcggcgcag ttgggtactc atcgccgggt 20580
gggtgtatcc gagcgccgca gcagcccgc cgacgcccc cgcgtcgggt atcgcacaca 20640

gcacgcgcaa gtggcgcagc tcaagttcca cgggggcacc tcgctccggg cgaacagagt 20700
tccattatgc gccaggagga aggcggtggg gaatccggga cggcctgacg ctttcggtcg 20760
accagtagcc cgaggggttat ggatgagcgg gagcctctgg tatggcctgg ccggttggtc 20820
ccgggtgacc gccgtggaaa tctcggacct gcgtgttggt ccgcagaggc gactgcggaa 20880
gcctgaagcg caccgccatc gaggagcgac atcatgcctc acacctgcat cagcttcacc 20940
gtcgaagcga ccggggccgc gggtcaccgc gcccgccacc gcgtctccac cgcgctgagc 21000
tggtggggag ggccggtcga ggaagagctc cgcttcagcg cggaactcgt gacctccgag 21060
ctcctcacca acgggctgcg gcacgcgggc gggcccatga ccgtcgagtt gacgctgggtg 21120
cacgacatgg tcgtcgtcgc ggtcctcgat gacagccggg agctgccgcg gcctcggcag 21180
acggaggcgg acgacgagtg cgggcgggga ctcgccctga tcgaggacct cagtctgata 21240
cggggagtcg agaccacttc ccgcgggaag cgctgctggg cggttctgcc gctgcggacg 21300
ccacaggagc gggctatcga gtcggctccg gctgaggagg cggaccacgg cttcgaggca 21360
gaccgggaac gctggtcact ggctcccaa ggaagcggac tactggcgag tctgtttccg 21420
gcgatgtgag ttcgtcctcc tcgggcggcc cagtagccga cccagggcag gcgggcgtgc 21480
ctgagggcgt gatgacgctc gtctgacgct ctggccgctt tcaagctgca cagcgagccg 21540
agaaacagcc tttgacctgg ctttttctgc ggctgcctca ggccgacatc tttccgatga 21600
cgcaccacgt ggagtacgtg gcgattctgg agcctgctgg caaggggttc tgacctgcgc 21660
ttttgttctc ctgcggcggg cgcggcaagc tcgtgcgggg cagttgggtt tcccgaaggc 21720
cgggtgctcgt gtgtccggcc ggccgggtgg ctgccttcgt ttcagtgggt gcgagagggc 21780
actcggacgc ctgagccgag atgcggttcg ttcggcacca tgggggtccgc aggatgaacc 21840
ggtcagcgac cgctggcacc tgtggaagaa cctttgcgac aaggccctgg ccgaggttcg 21900
ctcccacagc gcctgctgga ccacagcgaa cacacccgc ccggtcggcg tccatgagca 21960
gaccacccgc gaacgttggc atcagctcca cgacctctc ggcaagggtg tcggcttgct 22020
cgaatgcgcc cgcgcctga acctgtccct caacaccgtc aagcgctacc cgcgcacccg 22080
cgatcctgaa gccctgcgcc ccgtgaagca gctgtttcgc gaggtccagg agcagggctg 22140
caccggcagc ttcaccctgc tctaccgag caccagggc cgggcagaag gcgaccggcc 22200
cgctcgaggg tcgcggttg acgtcaccg tatccatcac tggaacggcg acgtctgatc 22260
ccgtctgccc ggggcttggg tcccggctgc ggcccgtagg cccggctcac cccagcacc 22320
atcactgttc gagagtgatt acctctccgc cggacacatg gaaatctgca tcggctggag 22380
tagacattgg gcagcagtggt ggttatgttt ctctgtaac ccagaaggac cgcagggccc 22440
ggcagagacg aactgccggg cagcagtacc cgcagttgca ggacgggtcg gtggtggagt 22500

gtcgaagcca ggatggtgca ggacggcgac gggactgacg accggaccgg gcggcccgc 22560
gtggtcaggg gccgccaccg cagtgcagta cccagcagcg aagtcagtga gcggtacctc 22620
ggtgaaggcg tcggtcgcg acgcgcgcgc cgggaggttc ggcaagtgtg gttccaagcc 22680
agagcagacg caggacgggc aacggggccg actgtcggac agtggcgctg tcacaggtca 22740
ctgagaggtt cgtgtcacca gcagtagagc agtaccagag gaaagaacgg aggaaccaag 22800
cgccatcagg atcgcccggg cgcagttttg ggcccgggta ccgcaggaca tcgatagtga 22860
ggtggtctcc ggtcaagaaa ccgcgatccc cgcgcccccg gcagcaggca ggtcgggtcc 22920
gcggacacag aaggccggtg cagtatcagg gccggcagat ggtgtaggag ttccttcggg 22980
gccctggtgc cgcattggc cagggcccct ccatgcgttc cgcagagagg tgcagatgac 23040
agcagacgat tcgtacggcc gtctcgacga cgacgattac cccgcctaca ccatggggcg 23100
ggcggccgag atgctcggtg cgacccccgc tttcctcgcg gccgtcggag aagcccggct 23160
gatcacgccg ctccgctcgg agggcgccca ccgcgcgtac tcccgtacc agttgcgcat 23220
cgcgccccgc gcccggaac tcgtcgacca gggcactccc gtcgaggcg cctgccgcat 23280
cgtcatcctg gaagaccagc tccaagaagc gcggcgatc aacgaggaac tgcagaggcg 23340
cccggccggc ctggtggaca aggccgaggg ctgaggccgc atctgccggc cggtcctgtg 23400
agggtcgc cc tgccaagacg ggaagccctt gccgcaacga gaagaggcaa ctgtccgcac 23460
cgatgtgctg ggcccgtcc tggctaggac tcccgtcttc ttgccggagc gatgcggctg 23520
tggaacgcga accggacggc agtgtcgtcg ggcgcggagc gcggggcgca cgtcgatggc 23580
gacaggaccg gcgaaggtgt attcgtgttc ggcggtgtga cggcgcacct ggccggcgag 23640
ggcggcgggc caggtgtcac agggacatcg gttccgactt ccaccaccog tccgggttcc 23700
accagcgtgt catccacctg atccaggctg ccgcggtagg tgctcgacgt cgggggtgta 23760
cgggggcagt tgtaccgttc cgccgcgagg agtgaccoga ttgaccaccg goctgtggcg 23820
ctcaggaacg ggctggactg tcgcagtccg ggccaactca agcccgacca tgaggcgac 23880
cacggcgccg cgcgaccccg accacagcta cagcgtggc atgaccaagg cggcacatgc 23940
ttcgaacgag ccattctcatg tgtgccggtg tgaacgtgat cgacgtcccc ggcactctgg 24000
tgccgacgca agccgtctgg ggcgccacc acgactggct cgccgccccg ccccgcgggc 24060
gccaccgtcc gtcccgccct gcgtcgtcgc ccgtgtggcg tcatgacggc gacagacttc 24120
ctcgcgatg ggccgaccat acggccaacg ccagaggtaa agcgtgtcc atggtgagtt 24180
ccctgaacag aagggtggc gggacctcct ttccaagacc gtgctgcagg agtccgtcag 24240
agcgcaggta atcccggtg gtccgcgacc cagggtgtc ctccgtctgg ccgaggggtcc 24300
tcgtttctg ggcgacatcc ctttagcgtg ggcggtagcc gccgaaggga ggcgcatgt 24360

cggaacgaatt gacggggcccg ttgggaacgg caatgcggga ggtcacgttt ccggaccggt 24420
ctcgcgggat catcttggtg cgggctggaa caccgcaggc cgaggccgag gcaatggccg 24480
cccgtatgtg ggccgagatg ccggaaggct gacgtgcccg aacgcagaca acccgtaccg 24540
tcctcacacg cattcccctg agcogtcggc catggaacgg aaccagccgt acgaaccccg 24600
gaggcgccgt tgcggtctct gcggcgaggc cggggccacg cagggcgaag aggccgcgcc 24660
gcgttctgcc gcctggcgcg gctgcgggt gttcacgaga acaccgaggg aggagtgcgc 24720
cgcctcttgc ccggcgcggt gccgggtgga gagcagggtg tgaaggactg gctcgtgaa 24780
ggcgcccgag gcgacctgt ccggcggcct gaacggcttt cactgtccca gcggcgcgag 24840
gccgccgaca caggcatgct ttgccatctc cctcgtgtc tactgacccc agcagcagga 24900
tccagtacgg cgtcgcggcg ctgccgcctc actcgcgcgt cgatcgggga atgcggcatg 24960
tggtgagggc ccggccggcg tgccggtcgg gccctcacac tgttttggtg tcggcgcggt 25020
tgtcgtgtcg gtcagacgga cagggtgggg gcgccgagca tggcggaagc ccgctgcaac 25080
ggactgtcgc tgcgcgcggg ggccgcctcg ggaaggggtg ggcaggtgaa gccagctgg 25140
gccatggccc ttaggatttc gccggtgtg aagtcgggc ggtcctggcg ggtgatgacc 25200
tgcccgacct gcttggcggg gtagtggcgt cgtccgatga tcacggactc gccggtgacc 25260
ggttcgggtt tgacgccctt catcgattcc agcacgccgc tcttggtcag gtcgaacggg 25320
aagcgggcaa tgacacagcg catgatgcct cacaggcagg agagttacgg ggccggccgc 25380
cgtctggcg ttcagcggga gagagcgagg acgccaggg cgtgcccgtg ttcgtcgacc 25440
acgggcacca gcccgagccg tccgaagggc accgcgtcct cggcttcctc cctcgtggcc 25500
gacggtgaga cgaagggtc gctgtcgtcg gtgatgtcac cgaggcgag ccggtcgggtg 25560
tatcgggagc tgtcccggac ggccgtgagc cgggcctggg tgaccaggcc gacgcaccgg 25620
gcacctcgt cgcagacgac cagatgctcg gcacgggcgg cggccatcac ggacagcgcc 25680
acctcgacgg tcatgtcgta ccagacctgt ggccggcgcg cgtccatgac gtcggccacc 25740
gtgccgcga atgggagagc gcctacggag cgatcctgca actgtcctgg cgtcaagggg 25800
tgctcctgc gcagacgggc ggggttcctg atcaggacgg tcctaggcgg ccgcgccagc 25860
cgtggacttg agtgcggggg tacgcccggt ccgcaggcg gggcgcgctc ggccgcgtga 25920
ggtggcgccg cgcttcttgg ggcgttcagt ccgcggggcg gtgatgacga ccgggatgcc 25980
ggtcggggcc tgggtccgg tgatccggt gagggcctcg tcggccgggc tgacctgggt 26040
ggtctgcggc cggatcccgg ctcccgacat gagacggacc atgcccggc gctggttcgg 26100
ggtgacgagc gtgacgagc tgccggactc gccggcgcg gccgtgcggc cggcccggtg 26160
gaggtagtcc ttgtggtcgg tcggcgggtc gacgttgacg acgaggtcga ggttgtcgac 26220

gtggattccg cgtgccgcga cgttggtcgc caccagcacg gtgacgtgcc cgttcttgaa 26280
ctgcgccaga gtgcgggtgc gctgcggctg ggacttgccg ccgtgcaggg cggcggcccc 26340
taccocgtg ttgagcaggt ccogggtcag tctgtcgacg gcgtgcttgg tgtcgaggaa 26400
catgatcacg cggccgtcgc gtgcggcgat ctcggtggtg gccgcgtgct tgtcggcgcc 26460
gtggacatgg agtacgtggt gctccatcgt ggtgacggcg ccggccgagg ggtcgacgga 26520
gtgcacgacg ggtgcgtga ggtagcggcg tacgagcagg tcgacgttgc ggtcgagggt 26580
ggcggagaac agcatgcgct ggccctcggg acgcacctg tcgagcagt cggtgacctg 26640
cggcatgaag cccatatcgg ccatctggtc ggccctcgtc aggacggtga cggagacctg 26700
gttcaaccgg cagtcgccgc ggtcgatgag gtccttgaga cgtcccggag tggcgacgac 26760
gacctcggcg ccaccacgca gcgcgacgc ctgcctgccg atcgacatcc cggccaccac 26820
cgtggccagc cgcagcttca cagagcgggc gtacggggtg agcgcgtcgg tgacctgctg 26880
cgccagctca cgtgtcggta cgaggaccag cccagcggc tgcgaggct cggcccccg 26940
gccggccgta cgggccagca gagccaggcc gaaggcgagg gtctttccgg aaccggtgcg 27000
cccgcggccc atgatgtcgc ggccggcgag ggagttcggc agggtcgcgg cctggatcgg 27060
gaacggcacg gtcacccctt gttggccgag cgcggccagc agttccccgg gcatgtcgag 27120
atcggcgaag ccctccgag cgggaagcgc gggggtgatc gtccggggga gggcgaactc 27180
cccctgaacg gcgccgggcc ggcgccgta accgcggag cggctgggtc cggccggccg 27240
gcgcggcgcc ggcgaaccga agcggctgcc gccctttccg gagtccggac cgccatgacg 27300
ggtgcgagcg aagcggtcgt tcgtgcgtgt gcggttcata cggaaccttc ctcgatgcgg 27360
cacatatcaa ggaatttccg aagcaatgag cagcacggag aatcgcaaga atggaccggt 27420
gggccttgcc agcggatctg gccgacagaa aatctgtgag gcacgtgcgc tggaatgatt 27480
gggggtgctg tgggctcgat attcgaagcg tccactgcac tgtagctatg aaggatgcgg 27540
ctgcaccttc gaaggacgat ccgtgtgcgg taaacacacg ctgtccggag cgtcgtccgc 27600
aggtgaaatc actgcgggaa acgcatgtag ctggggcccg cccccgaag gatgcgggcc 27660
ccagctacaa gtacgtgaca gtcggcgta ggcgggaacg atgttctcgg ccgtcgggcc 27720
cttctggccc tgcgcgatgt cgaagttcac cttctggcct tcgagcagct cgcggaagcc 27780
ctgggcggcg atgttcgagt agtggcgaa cacatcagcg ccgccaccgt cctgctcgat 27840
gaagccgaag cccttttccg cgttgaacca ctacacggt ccagcagcca tgtcatttct 27900
ccttcggggc agtcgtacgg gatccgcacc gcgcggacct cgtgtcgccg caatgatcac 27960
cccgccgga aaaagaccgg agatgtaaaa gtgcttcag gggtaactgag cccgaccgga 28020
gcacttgaaa tttcgggaac cacaactgca actgacatcg acagtagcac gccacagcag 28080

ccactgtgcg gtgaagaacg ccaccttgct tattgcggca gagaatctat ccgcatgctc 28140
cgatgaaaac tcaaacgcg cgacagata ttgacctcg cgcgacgcca tatatcgcat 28200
gccgcgctcg cgtgatccgg tccccacca cgctctccgc tactgcacgg gtcgcaccgc 28260
cgcgggggca gacaggctcg gccatgacgc cggccatgct cggggcgtag cggacgcctg 28320
ccggtcgggt gtacgtctcg cgcgcggcga gactgcggg ggagggggcg gttgccagac 28380
gtcttgctg gcaaccggct gtcggctcgg gctggttggt cagccgtggc aggtgatgtg 28440
gttctgcgcg ccgcttccg tgaacgcgc gcagccccg ctgccttcta ccaggccgac 28500
cctcaggagg cgtgaccgg ggaagccgag gatcagcgg agtcgtcagg ggaggcttcc 28560
ttgccgccgt aggtgacgtc ctogaagtat gccaggcat ccggccggct gccgtccacg 28620
tccgtcacc cgtatgcct ggccagttcc ccgctggagg tggacttgcc gttccaccgc 28680
ttcgcgcggt ctgggtcggc ggccagcgc gcgaccgtac gggccaggta gtgcggggac 28740
tccgcgatcg cgaacgtcgg ctcttggggc atcgcgtcac gccagttctc ctactcaca 28800
ccgaagtggg agagcatctg ctccgaacgc aggaagccc gggacaccgc gaccgccgtg 28860
ccctcgtact ccgccagctc ctgagccagc ccgaacgcga ggcggatcgg ggcgttcttc 28920
gccaggctcg agtagatgtt ctgcggtag cggcggttg agtcgcgggt accgtcgggtg 28980
acttccacat gcagcggcgc gtcggagcgg atcagcagcg gaagcagcag cgcgcgccgtg 29040
atcacgtgcg agcgcgcgc cagctccagg atccgcaggc cgtcggcgag cgggtgtctcc 29100
cagctcttct tcccgaacac cgaggtggcc agaaggtgct cgcgcgcca caggctcgtg 29160
acgagaatgt cgagccgctc gtactcccgg tcgatccgct cgacgagggc gcggacctgg 29220
gcttcgtcga gatggtcgg gggaaactgc attocggtgc cgcgcgctgc ggtgacgagt 29280
tcggcggtct cctcgatggt ctcggtcgtc cggccgacct cgtgggcccg ggcccggtg 29340
gttcggccgg tcacatacac ggtagcgcg gcccgcccc gttccacagc ctgagctcgt 29400
cccgccccgc gggtagcgc cgccacgagg gcgatccgtc ctgccagcg acccttcgga 29460
ccggcctgct cgggtgttctc agtggctcgc ctggtgatgt cctcgttgct catgtcatcc 29520
atcgttcacg ctaaaaccga cagaacacgt caccttttat gtggggggta ccgcgcatca 29580
tcccggccat agcgccaact acgtcctcgc actgagcgtt ttcagcgtgg gccaccgatc 29640
gggtgacgcc ggtcaggctc gggtaggggc cgcaacgcac aaggctcgcg tgcacgacat 29700
ggccaccgcg cgcgatgct cccagcggga gccagccgt ccccggcagc cccagccgt 29760
gagaccagct caccgggac acccgtccg acaccgcaca cgatcaagta gtcgacctcc 29820
agacgcgttc agcagccac atcccaggag ccgtctaccg tcccaggaa cctgctccg 29880
ggaccatcgg gctcggcacc gggagtgcac agttgatcag taactggcaa cgagctcgtg 29940

cacggttaagc ggtgaggtgt cgaggtccag atgggcggcg gcggtggtgc cccagcggt 30000
cgcccgaccg gcatgccgag cgggcagccc accggtgtgc cgagcggcgg acccggcggc 30060
ggcacgggca tgggcggcac cccaccccg cagcacctga agtcggtcag gaccggccgc 30120
gtgacgggct tcgggtcaga cctgtgcggg gaacagcagg cagtcgtccg ggcggatgat 30180
caggttgatc tcgcggtcgc tgtgccggac ggggctctcg gcatggacgc gcacgtcgcc 30240
gatgctgagc tcgtactcga atcgcgctcc ggtgtacgag cactgctcga tcctcgcccg 30300
gagcacgttg acggcacccg cgtgcggggc gtcggcgcgg tcggtgagcg tgatgcgttc 30360
cgagcgcagg cccacggtgg cggacgaccc cgcggagcag gcgccggcca ccctcaagcg 30420
ctgaccggtc tcacccagtt cgacctgtac ggctccgccc tcggtggcgc cgacgcgccc 30480
ctccaggagg ttgcagcggc cgatgaagcc ggcgacctcg ggagtggcgg gagtctcgta 30540
gatctcggtc ggtgtgccc cctgctggag gtgtccgtgc atgaacacgg cgatgcggtc 30600
ggacagggac atggcctcga cctggctcgtg ggtgacgtac acggtggtga tgccgacctc 30660
ccgctggagg tccttgagcc agacgcgggc ctggctcggc atcttcgcgt ccaggttga 30720
gagcggttcg tccaggagca gcacgccggg ggagtagacg atgcctcggg cgagggcgac 30780
gcgctgctgc tgtccgcgg agagctggtg ggggtagcgg tcgcgcgagg gagccatgtc 30840
gaccttggtg aggacgtcgt cgatgaggcg ccgttgctcg cccttggtga ccttgcgagg 30900
cttcagcggc agtgcgaggt tgtcggcgac ggtcatgtgt ggccagagcg cgtacgactg 30960
gaagaccagg ccgagattgc ggccttcggg gggcacctg ctgcgccggg tgccgtcgaa 31020
gaagacctg tcgccgacac ggatggtgcc cgagtcgggg gtctccagac ccgcgacgca 31080
cgacaagggt gtggacttgc cgcagcccga cgggcccagc agagtgaaga actccccgtc 31140
cgcgacggtg aagttgacgt cctccaggac cgcggtcccg tggaaggact tcttgatgtt 31200
ctcgacgacc agctcaggca tgcttcttcc ccttcaggag gagaccggcg aggcggcgca 31260
cgacggcggg gacggcgatc tggaggggtg cgagggcggc cacggagccg gtctcaccct 31320
gggtccacag atcgatggcg gtggtgccga tgacctgtga ctcggtccg gcgaggaaca 31380
tggcgggggc gtactcgcg atcatctggg tccagatgag caggaacgag gcgagcatcg 31440
cgggcacgag gagacggagc atgatccggg acaccgtgcg ccaccagtcg gcgccggcga 31500
cgcgtgcggc gttgtcgagt tcggctccga gctgcatggt cgcgggggag atcgcgccgt 31560
acgccgacgg gagtgcccg atgccgaagg cgatgatcag cgcgaagagc gtgccgcgca 31620
ccgcgtcgcc gccgggtatc caggtgaagg cccagaacag gccgatgccg acgatcaggc 31680
ccgggaccgc gtgcggtgac tgcgctgtcg tctccaggag acgggcgaag cggaagtcgg 31740
agcggcgtgc cacgaggacg accaccgtgc cgaacagggc cacggccacc gccccacga 31800

agggccacggt gatgctgttg acgatcgact cgggtgtaggg ggcgtagtgc aagatcagac 31860
ggaagttgtc caggggtgagc aggtcgaacg ggttcaccag cggagtgagc agcgaggtga 31920
acgcgcgcag gatgagcgcg agcatcggca gcagtgcgcc gaagacgacg tacagaccga 31980
cgaaggcgaa gcccagccac ttccaggcac cgatgtcgag caggtcggag cgggtcgcct 32040
tgccgcgcac cgacacgaac cgctgggctg gcccagcag ccgctcttg aacacgacca 32100
gggcgatggt ggtgagcagc atgaaggtgg acgccgcgcc cagcaggccg tagtccggat 32160
tgatcgagtc gatgccctgc tcgtagagga agttggagaa gagggtgatg ccggcgggct 32220
cgcccaggat gagcgggatg gacagggctc cgatcgccgt gccgaagatc agcagacccg 32280
cgtagagcat cggcggggcg agcatcggca ccacgaccga gcgcaggacg cgcagaggcc 32340
ccgcgccgac gctgcggggc gcgttctcca gagaggtgtc ggaggcggcc agcgcgttgg 32400
cgcagaacag gtaggcgatg gggacctggg cgacggcctc gacgaacgcc ataccgggca 32460
gtgagtacag gttccagggc acccagccga agccctcgcg caccgcgccg gtcaggaagc 32520
cgcccgggcc gtagacgacg atccaccga aggccaggac gagcggggag atgtagatgg 32580
gccagcgcag cacctgcccg aacaggcggg cggcggggaa gcgggtgcgc tccagcagaa 32640
tcgccatcgg caccgcgatg gcgagcgcga acacggtcgt caggacggcg aagaggaggg 32700
tgtcgaggac gatcgaaccg aagcccgcgc acgtgaacag gtgggtgtag ttcgagaggg 32760
tgaaggcgcc gccggccgcg tacaggggct ggttgcggac cgactggtag aggatcggtg 32820
cgacgggggc gaggacgagc acggcgggtg cgaggaacgt cagccagtgg atggtgacct 32880
cacgtccggc gccgaacagg cgccggtact ggggcgtgcc cagctcgccc gcgcgcggga 32940
tgccggacgg cgcgggtggc gccgggggtg tctggatggc catgacgact ccgtacgaac 33000
ggggtgggga caggggctt gggcgggcgg gggcggtcga gccggccgcc ttctcccagc 33060
gcgcgacgta cgcctcccgc acgcgctccg gcacccgcac gggccggtac agatggacgc 33120
ggtccgcgcc gagcctgcgc cgcattctct gcagactgtc catggcgctc tggcgcacgt 33180
ccggccggtg cggcaccagg ccgccctcgg cgaccgccgc ctgcccttcg gcggagagca 33240
ggaagtocag gaagagacgg gccgcgttcg ggtgcggggc ggtcttcacg acggacagcg 33300
cgcgcgcat gacgacggtg ccctccgcgt agtagctcca cccagcagt cccccgtgt 33360
gctcggcggc gggatatcgc acgccatcac gtacggcagg atcccgcctg gccgcaggta 33420
ggccagttcc tggcgcgagt ggaggcgcag cctgagacgg accgtggcgc ggggtgcgtc 33480
gggcccgcag agggacaggg cgacggggtt cgtgccgacg cacaggtcgg cgaggccgtc 33540
gaaggtgaat tcctctctc cggatgaagg gtgggccgat gcggtgtcgc cctctcogaa 33600
ctocaggggc agtacacca tgccgatcag gttgttcggt tggatgcgct cgaaggactc 33660

ggctatcacc gcccgcactc ccagcagcgc ctgtgccttg gcggcccagt cgcggctgga 33720
gccggcgccg tagttgcggc ccgcgaccac gacgagatcg tggcccgcgg cgcggtaggt 33780
cgccgcggct tcgtggacgg gcccacccg cagttgcgtg ccccgatggc cgccctgcgc 33840
atggacgatg cgcccgggtc ccttcgaggg cctggccgcc gggtcgttcc tgacccgagg 33900
cgccgatcag gacgacgcc tgcaacggac gcgaggacag cgtcagcttc gtccgcggca 33960
acagcgacga ccccggtgac ttccgatgac gcgcacgccc ccgcccgcgg aaccgagct 34020
gaccgtcgac cgcgcgcct gctctgggtc accctcccgc tccgcctgcg agatcagatc 34080
gccgacgcgc cgcggggcac cgtcgtccac gtcgtcgcca ccgacccccg cggcaccgct 34140
cgacctgcc accctggtgcc acatgacagg tcacacctgt ctcggcacgc ccccggcgaa 34200
cgcccggtgt acgcccga gctcaccgcc gacgcgcgcg ccacccgccc ggacgcaccc 34260
tggcaccgc tcggcgggcg gcaggagcag ccccggaacc ggtgacgcat ctcgtcggcc 34320
ggccgtttcg agtggaccgc ggacgcgga cgtcacggcg tccggaacc ccggaagggtg 34380
accggcctgc gtgtcttgaa gccgagccgt tcgtacaagg cgatcgcgcc ggtgttcgcc 34440
tcggccacgt gcaggaaggg acgatcaccg cgcgccgaga tgcgctcggg gagagcgcg 34500
acgaggcggg cggcataacc ctgcccgcgc gcctcgggag cggcgacagac ggcgctgatc 34560
tcggtccagc ccggaggacg caggcgcttc ccggccatcg ccaccagggt gccgtcgacc 34620
cggacacca ggtagggtgcc gagttcatgg gtacggggcc agaacggccc cggctcggtc 34680
cgcgcggcga gatccagcat ctcaggcacg ctgtccgcgc ccagctcgac cacgtcgggtg 34740
tcggacgcgg agcgagttcg gccggggcgg ccgtcgccgg gccaggteat ctgacggccc 34800
tcaagactga aaaccggctc ccaaccggc gccggaacgg ccggggagct gaacatgtcg 34860
gcgaaggcgc cgggaccgag taggccggcc aggtcggccc agtcctccgc gtcggggtcg 34920
acggacacgg aggagaaggc cgcacgtcg gtgagatagg tggctgctcg accgaaccgt 34980
cgggcgagat gagcgtgcc accactgagc gactgacct cggggtcgtc gagtgcgggg 35040
tcgtcgtcgt tcatcatcgt gccgtttcct tcctgggtgag cgcgggtggc gaagggtggc 35100
cgcggtaggc gaaaagtcgg cggcggggcc cgtggcccga tagtcgtagc cttgtcacc 35160
gtgcagtttg ccgggtcgcc tgaggacttc cggctggagg ccaatgccaa agcgtctctg 35220
tgccggcgga ggcacgcctt ctgacgtgcc tccaccggca ccaactcagtt caggcagatt 35280
gagcttgagc gatgcagcgc cgcgggaagt cgagcgcctc aatgcatcga gcggcgactt 35340
cctcgttctg ggtgagagca gtctgcctt gtcgagtgat gggcggttcg gaccgtcacc 35400
ccggcgaagg ccaggacctg tcccacggag tggctcatcc acctccccct cctcggccca 35460
cagcttcagg cccgacgtag ggggaggggc gactcggaac ccggcgtccc gtcgcgaag 35520

gtcggtcaga cctgttcgaa gtggaacgcc ttgatgaagc agtcccgggg ttgggcgacg 35580
gcgaagagga tgcaactccac gagggactgc gcggtgaggg cgtcctcggc ttcgcgtgaa 35640
gtggctcgccc actcctcggg gagcgggtcg gcgttgctga agtcggggcg gtagagcgag 35700
atcacccgga ctcccttgggc gcgcaggcgc ttggagagga tttcggtgaa ccctgcctgg 35760
gcgctcttgg ccgcgtagaa ggcgtcgtgt gcgtccgagc ggtggtggcc cgggtgttccg 35820
caggcggaga ccatcgtcac gacgtcgggt gtgtccgagt tgagcaggag ggggaggaaa 35880
ctcctcgtgg tcaggaccgt gccggtggct ccggaggcga tgggtgtccac gacgtcggcg 35940
tcggttgccg acagcaggtc cggcccgggt aggtagcggg agccgttggt gacgagtacg 36000
tcgacgcggt cgggtgtgttc cgcgacgccg gaggcgaagt cgcggatcga ggcaggatcc 36060
gtcaggtcgc aggcgaaggc gtgcacccgc tgggtgtccg ggtcgcggat ctgcgcgcgg 36120
accggttggg cggcggcgag ccggcgtgcc gagaggaaga cctccgcgcc gaggtccgcg 36180
aggcggatgg ccagggttcg tccgaagtcc cggccggcg cgtgatgac gacgcggtgg 36240
ttgtcccatc tcatggtgtc gtccccagt cgcggtttcg tggatcgggt ggtgccgtgc 36300
accgcgtctc tacgctatcg gtcattggtc ctacgaacg gtcgttcacg gtcaatgatg 36360
atgttgaggt gcccaacccc ggtgcggacg aggtctggac cgtcggcgcg gtcatactca 36420
atcgggaagg tcgtgccttt gccagaagc ggagccggga ccgtcgcctg tccccgggg 36480
cctgggacat cgtgggcggt catgtcgagg agggcgagac gcttctggag gccctcgcgc 36540
gtgaagtcca ggaggagacc ggctggcgcc tgaccctgtg gcggcggttc ctcggcacca 36600
cgacctggac gggggacgac ggcggcgcc tgcgtcacga ggccgactac ctggtcgagg 36660
tggaaggcga cctggaccac ccgaggctgg aatggtccaa gcactccgcc tacgactggt 36720
tcggcccccg gatctcacc cgcctcaagg agaaccggcg accaggggag tacctgatcc 36780
acgacctcat agccggtgcc gttgccgact cgcctttcga cttgctccgg gcggacgccc 36840
tcaccagccc ggaccggctg cgcgagctct acccgagcc gaaccgaac tcgctgcgca 36900
aggagaccga ccgcctgacc gaggagaccc gggcgctgat cggctgttcg tactggtgt 36960
tcatcggcag cgcggaccgc gagggccggg cggacgtgac gccacgtggc ggcccggccg 37020
ggttcgtctc ggtgctggac gagcagaccc tggatgaccc cgacgcgacc ggcaacaaac 37080
ggctcgacac cctgcacaaac gtgctggaga ccggacgcct ggggctgctc ttcctcgtcc 37140
ccggccgccc gaccacgctg cggatcaacg gacgcgcctg tgtttcggcc cggccggagc 37200
tgctcgccc cctcactccc gtcggaaagc cgcgggtcac cgcgctggtg gtgcaggtcg 37260
agcaggtgta tccgactgc ccgaagtcac tgatgcgcgc cgacgcctgg cgaccgagc 37320
agtggatgcc cgcgcagccc cagccgagca gcgccgaggt gacccttgcg cagctgaacc 37380

tgccccggcct gaccctggac cggatcgagg atgccgaacg ggagtcgctg cgcctgcggt 37440
acgaatgacg acgagtcgat gagcgccgat gagccgatga gacccgacgg gatccgacgg 37500
gtcggcgctcc gcgggcgagca gaccggtcgc gaaggtcacc gcccgacacgg cggcgaccct 37560
cgcgacggtc agtactgtcc ggtcaggtgc ggggccagcg ttggttgctg ccgttgagc 37620
aggtgtacag ctggatcagg gtgccgttg cgtgccgtt cccgacggcg tcgaggcaga 37680
ggccggactg gacgccgacg acggaccctg cggagttgag gcgccacttc tggttgtcgc 37740
cgccccagca gctgtagatc tggaccttg agccgttgcc ggtgcctgcg gcgtccaggc 37800
acttgtcgcc gtagaccctg agctcgcccg cgtcagtggc ggccactgc tggttggtgc 37860
cgctgtggca gtcccacagc tggagctggg tgccgtcga ggtgctggcg tcgggcacgt 37920
cgaggcagcg gccgaaccg acgccctga tctgtcccc gtccgcgggg ggctccgagg 37980
agtegccgcc gttgagtgcg tcgaggacgg cgggtgacgc ggcttcttg ctgcgctcgt 38040
tgttgaacag caacggcgtc tgctccgacc gccaggagtc gctgtcgcgc acaccccaga 38100
cggatgatgcc gaggcagcgc gagacggcca ggcagtcgtt ggtcacgttg gcgtaggtcg 38160
aggccggggc gccctggatg tccagctcgg tgatggccac gtcgacgcg agggcgggcga 38220
agttctgcag tgtggtgcgg aagttgctgt tgtaggggt gccgctgttg aagtgcgact 38280
ggaagccgac gcagtcgatc ggcacgcgc gctgcttgaa gtcccgcaacc atgttgtaca 38340
tggcctgggt cttggcccag gtccagttct cgacgttgta gtcgttgtag cagagcttg 38400
cggacgggtc ggccggcgcg gcgggtcgga aggcgacctc gatccagtcg ttgccgctgc 38460
gttgacaggtt ggagtcgcgc cgcgctccc aactgccgtc ggccaaggcc tcgttcacga 38520
cgtccactg gacgatcttg cccttgtagt gggccatcac gccgttgatg tggtcgatca 38580
tcgcctggcg cagcgcgctg ccgctgaggc tctgcatcca gccgggctgc tgggagtgcc 38640
aggccaggggt gtggccgcgc acctgcttg cgttctgcac cgcccagttg tagacgcggt 38700
cggcgagct gaagttgaac tggccccgt gcgg 38734

<210> 31

<211> 3331

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism:Unknown

<400> 31

tggatctcc ccacacaaca tagatagagg atatccgcct gggttcacia tgaagttact 60

gggtggttctc accaccctcg tgggctttag ctcagcacta agtttcgggt gtaattacag 120

accagtatta ggcttcaatt cacagtatat gctgggagga ctaagacttt tctgtatgcc 180

tgccatggtt tatgatccat gggcatgtgg ttgcgtttcg gcatggagca gtgcaggtct 240
ttacggtgtc ggagggggcg gaggcgcctg gggagctggc ggtgctggag gagccgacgg 300
cggacgcggc ggcggcgggtg gagattggga atatgactat gatgacgaca gcgatgacga 360
tgatgaatgg gactgggatg atgacgggtg aatgggagct ggcgcggag gtggtgctgg 420
tggtggtgcc ggaggtggtg ctggtgctgg tgctggagca ggcgcaggag caggagcagg 480
tgctggactc ggacttgat tggcgagg tctcgagggt ggacttggcg gacttggagg 540
tcttggcga cttggcgggtg gagacgattt atttgattta gatttcgatg atcttgggtc 600
agctcttgcc ctcggtggag ctggtggagc tggaggtgct gctgctgctg ctgcagctgc 660
cgctgctgcc gccgggggtg gaggttggtg agctgctgcc gcagccgcag ccgctgctgc 720
cgctgcagga ggaggcgag gtagacttgg aggagctgct gctgcagccg cagccgctgc 780
tgccgctgca ggaggcgag gtggacttgg aggactcggg ggcggacttg gaggactcgg 840
tgccggactt ggaggcctcg gaggctcttg tggcctcgga ggatatggag gatctgctgc 900
tgccgctgct gctgctgccg ccgctgctgc cggaggtgga ggactcgggt gtgttggttt 960
ctacggtgga cgaggagga gacgcggtcg aggaagagga ggccgcagac gtgctgctgc 1020
tgccgctgct gcagctgccg ccgcagccgc tgggtggtggc ggaggaggtg gagggtggtg 1080
aggaggaggc ggaggcgtg gtgctgccgc tgccgctgca gccgctgctg catctgcttc 1140
agcttctaga caaatgagt gtataaggga cgcattagga gacattaaag accttctcag 1200
gagtaatgga gcctctgcaa aagcctctgc taaagcatca gcagtagcaa gcacaaaatc 1260
tcaaattgac gatttgaagg atgtotaaa ggatcttgca ggtctattga aaagctcagc 1320
atctgcttca gcatctgcat ctgcatcagc ttcagctgga ggtggaggcg gtggtggtaa 1380
cggaggtggt aacggaggag gaggcggcgg tggagctgga gctctagctg ctgctctcgc 1440
tgctgcagga gccggaggtg gacttggagg tggaggcgga ggcggagctt tagccgctgc 1500
actagctgct gctggtgcag gtggaggagg ttttgggtgga cttggaggac taggcggtct 1560
tggtggggga tctgccgcag ctgctgcagc cgctgccgct gctgcatcag gtggtggagg 1620
aagagcactt agaagggtt tgagaagaca aatgcgtgga ggtggatccg ctgctgccgc 1680
tgctgctgct gctgcagctg ctgctggagg tggatgggga ggtggaatgg gtggaggatt 1740
cggagtaggt ctcggtggag gattcggagg aggatttggg ggtggatcat cagcagcagc 1800
tgctgccgct gctgcagccg ccgctggatt tgggtggagg ggacgaagag gtagaggtag 1860
aggacgtgga ggcgatggcg acggtaacgg agctagtgtg gtagctgcag ccgccgccgc 1920
tgctgctgct gctggaggat ctgctgctga tgttgccgct gccgctgctg cagccgcagc 1980
tatgtacggt gacggtgctg atggacctga tttcgataat ggattcgggt gtggaaacgg 2040

```

aatggaggt ggcggatctg gtggtggcgg atccggcgga ggtggatccg gtggcggatc 2100
tggaggtggc ggtggatctg gtggatcagg cgggtggcggc ggatctggtg gttcaggcgg 2160
tggcggatca ggcggcgggtg gaaacaatgg atggggaaat aacggcaaca ataaatatga 2220
cgatgatgac tgtgatgaat atggttaaccc tattagaagg gggtaaatta tttgacatta 2280
tccgccatth gactcattth tcttagttct ctatgtttta tacttcacct tagattgttt 2340
tagtttgatt gaataaatta tgthttcgat ataaattttt tttaaattaa attaaacttt 2400
attagttgac ctgtaaactt tttcatggag ttataatcta aggaacaaaa aacatacata 2460
atatgttcag tattgtggta aagcacctgt accgcaaaca caatcacctc tatacatgta 2520
tacaaaatca gtaatgctga caaatcttc tactctctca cctacacact cgcacacagt 2580
cctcttacat acacagcact ataatacct gaacatgaag tttgtgttga taaaaagttc 2640
agaaaaatct cccctacatc acctgatctt tcttgaaaa tttacgacaa gtattgaaaa 2700
tagcagaaag aaaacgggaa attgagaagt tttctataaa aaacaatcgg aacaatgact 2760
ggaatgacaa ggatgaaaat aatgataact tacattaatt aaggccocaa taatctctct 2820
atthtcaaac ththththth aatgttctct ctaactcact tgcattctatg tggaaattca 2880
catactatac taaattacca caagtatcaa ggtttcacaa cctctcatgc cttcatggca 2940
gacctgctg ggtatttgtc taacaatgcc tcataaatac ataaaactaa ctaacaaaat 3000
aggtcagttc gtaacaaatt attaatgcac cattattgca ttttctaaaa caaagcatac 3060
actggatatt ggcagacaaa atgttgttat tggatacctt tccattctat ctagacactt 3120
gctttccaca agtcatcata aataaatccc ccctatccca aatgtcaatg gaatgcccc 3180
acccttcccc cataatttta aaacctagaa taaattaaaa catctatagt tgcgtcatgat 3240
catctttctt atcatctctt tcttctctct cctctctctt cttcttcttc ctctctctca 3300
ggttcttggc tgcctgctcc ttccttgcca a

```

<210> 32
 <211> 5224
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown Organism:Unknown

```

<400> 32
ggatcccctg ctcgacgccg gcggcccggg acacctccat cgtgcggacg ttgttcccgc 60
gcccgcgagg gtggacggag gtgccggcgt gacgtccac cagcatgtgc cgcaccccca 120
gccggcccag gaacacggac gtcgacaggc ccacgagcga tccgcccagc acgaggaccg 180
gaacctgtg gacctgtgcc ccggcccgat cggctcttgc gttcatcttt ctctctcagc 240

```

gcgtgatgtc cgcccactcg gccggtttcg gccgggggtca tgcattgccc gcgaggctgg 300
agcgcggtgc gccgggggacc acacttcacc cgcttaaccc gctgcgttcg cgcaggggca 360
cggcacgccc gacgatcgtg ctacagggcc gacgcaccgt catgtgacgc gtcggccgcc 420
ttaccgttcc tccaggaaga ggtgcgcctc aatgacggtc tctgccgctg tgtccacggc 480
cccggaccgt gtccccctca ccgtgttcga cggttcccgg gtgcgggtcg tgctgatgct 540
ggacatccgc gacgggacgc aagcggaggt cctggacgcc tacgagcgga tgtccgaccg 600
ggtcgccgcc gtgccggggc acatcagcga ccagctgtgc cagtcgctgg agaaccacac 660
ccagtggctc atcaccagcg agtgggagag cgcaccggag ttctctgcct gggccaacag 720
cgaggaacac ctggagatgg tccgtcccct ggagccctac gtccgcggca cccactcgat 780
gcgctactcg gtgctgcgcg agacggccga ggagcgggcc ggggcgggtg cggcgggccc 840
gggcgcgctg cagccccggc cgcgcacggt cgacaacgtg gtccggcaag ccgtcaccta 900
caccgtcaag cccgacagcg tcaccgaggt cgtgaagatc ctctccgct acacctcgcc 960
cgaggtgcgc gtggacgaca ccacgcggct cgtgcgcacc tccctcttcc tgtacggcaa 1020
ccgggtcgtc cgggcgatcg aggtgcgggg cgacctgcag gccgccctgc gccacgtggc 1080
ccggcagccg gaggtgcgcg ccgtcgagga agccctcacc ccgcacatcg aacaggaccg 1140
ggacctcacc gaccgcgggt ccgcccggct gttcttcacc cgggcgcgcg tgccggccgt 1200
ccaccacgtg gtgtccgggc gcgggacggg cggcgacacg cagcgggtgc cgctgtacta 1260
cccggccac cccgggcgcg gaccggcgct cgcccggtg ctggcgcggc agggcgaggc 1320
caccgtgggc gaccggggca gtccggtcgt cgctgcacc gtcttcacc gcgacgacct 1380
cgctcgtacg ctctgcgaca cggcgggcgc accggagcgc gcgccgggg ccgtcctggc 1440
cctgcacgag ccggacgccc tcgccgaggc cgggcgggtg ctggacgccg ccgcgctcgg 1500
cgccgacggc ccccgagcg accgggcgct gccgacgttc ctgcgcacg cccggatgcg 1560
gcctctgaca gaccgtcagt cgccggcctc ctgaccccc gctcgccga cctcaggag 1620
tgaccgacat gacagaacag caggcacgca tcgtgcctt cgacgacgtc ccgccaacc 1680
ggcggcgcgg cggcgacgtc cgggcctgc tcacgcccac gaccgcgggg gcgaccagcg 1740
gcttcattgg cgtggccgtc gtacggcccg gagaacgcat ctccgagcac taccaccgt 1800
actccgagga gttcgtgtac gtcaccgccg gcgccttcga ggtggacctg gacgacgtgc 1860
cgcatccct gcgcaccggg cagggcctgc tcatcccaaa ggacgtgcgc caccgcttcc 1920
gcaacaccgg cgacgtcgag gcgcgcctcg tcttcacct gggtcgctg gcccccggc 1980
cggacctcgg gcacgtcgac accgaggaga ccgacgagac cgcgcgggcc ggggtggtgt 2040
catgagccgc cgggtcgtcg tcaccggcat aggcgtcgtc gccccgggc gcacggcg 2100

ggcccgggttc tgggacctgc tggccggcgg gcgtaaggcg acgcgccgga tctccctgtt 2160
cgacccggcg cgctgcgtc cgcagatgc cgccgagtgc gacttcgacc cgtccgcgca 2220
cggcctggac gacgagacgg tccggcggtg cgaccggtac gtgcagttcg cgctggtcgc 2280
caccgccgag gcggtccgcg acgcgggcct ggacaccacg cgcgaggacc cctggcgcat 2340
ggggggccgtc ctcggcacgg cggtcggcgg caccaccgc ctggagcacg actacgtcct 2400
ggtcagcgag ggccggctgc gctgggacgt ggaccaccgg cgggcccagc cgcacctgca 2460
ccgcgccttc gccccagca cgctgcctc caccgtgcgc gagaccttcg gcgcgcaggg 2520
cccgtgacg accgtctcca ccggtgcac gtccgggctg gacgcggtgg ggtacgccta 2580
ccacgccatc gccgagggcc gtgccgacgt gtgcctggcg ggccgctcgg actcgccgat 2640
atcgccgatc accatggcgt gcttcgacgc catcaaggcg acctcgcca gcaacgacga 2700
cccggagcac gcctcccgcc ctttcgacgc ccgccgaac gggttcgtga tgggcgaggg 2760
cggcgcggtg ctctgtctgg aggagctgga gcacgccggg gcccgcgggc cggacgtcta 2820
ctgcgagctc gccggctacg ccaccttcgg caacgcccac cacatgaccg ggctcaccgc 2880
ggagggcctg gagatggcgc gggccatcga caccgcgtg gacatggccc gcctggacgg 2940
cacggacatc gactacgtca acgcgcacgg ctccggcacc cagcagaacg accggcacga 3000
gaccgcggcg gtcaagcggc cgctgggcga gcacgcgtac cggaccccga tgagctcgat 3060
caagtcgatg gtgggccact cgctcggcgc gatcggtcgc atcgaggtcg tcgcctgcgt 3120
cctcgccctg gcgcaccagg tgggtgccgc caccggccaa tacgagacac cggaccccga 3180
gtgcgacctg gactacgtgc cgcgcgaggc acgcgagcgg gagctgcgca gcgtgctgtc 3240
ggtgggcagc ggcttcggcg gcttccagtc cgcggtcgtg ctgaccggac cggagaggag 3300
gctgagatga gcgcacccc gcgagccgtc gtcaccggac tcggagtggg ggcaccccac 3360
ggcatcggtg ccgagacgtt ctggaagacg gccgtggacg gcaccagcag cctggcccgg 3420
atcgaccggg agggctgcgg ccacctgccc ctgaagatcg ccggccaggc ccccgacttc 3480
gacccggccg ccctgatcga ggacacctac ctcgctccaga ccgaccgctt caccacttc 3540
gcgatggcgg ccaccagct cgccctcgac gacgcccggc tctcccgcgc cgacatcgac 3600
tcgccgtact cgggtggcgt ggtgacggcc gcgggctccg gcggcgccga gttcggccag 3660
cgcgagctgc agaaactgtg gggccagggc tcgaagtacg tcggccccta ccagtcgatc 3720
gcctggttct acgcggcgag caccggccag atctccatcc gcggcggtt caagggtccc 3780
tgccgctggg tggccgccga cgaggccggc ggccctggac ccctcgcgca cgcgcgctg 3840
gcggtacggc gcggcaccgc caccgtcgtc gccggcgcca ccgaggcccc gctggccccg 3900
tactcgatgg tctgccagct gggttaccgg gagctcagcc gcagcgccga cccgggcccg 3960

gcctaccgtc ccttcacctc cgccgectgc gggttcgtgc ccgccgaggg cggggcgatg 4020
 ttctgtcctgg aggaggaggg cgcggcacgc gagcgcgggc ccgacgcgcg ggcgacgggtg 4080
 gccggccacg cggccacgtt caccggcgcc tcccgctggg aggagtccag ggccggcctg 4140
 gcgcacgcga tcggcacggc gctggcgcgg gccggctgcc gtccgcagga cgtggacgtc 4200
 gtgttcgccg acgccctcgg cgtgccggag gccgacgggg ccgaggccct ggccctggcc 4260
 gacgcgctcg gcccgcacgc gcggcgggtc cccgtcaccg ccccgaaaggc gggcatcggc 4320
 cgggcggttct gcgcggccgc ggtgctcgac gtggcgaccg cgctgctcgc catggagcac 4380
 gagctgatcc cggccacccc ccatgtgctc gacgtctgcc acgacctgga cctggtggtc 4440
 ggccggggcg gtcccgcccg gccgcgcacc gcgtgggtgc tcagccggcg actcatgggc 4500
 aacaactcgg cgctcgtcct gcgcaggggc gccgcgcggt tccccgagta agtaccgccg 4560
 acaggtgtct cacgtcccct tcgggcgcgg gcacccgagt caaggagctc aaccacatga 4620
 ccgacatgac cgaacgcgtg ggcacccagg tgaccttoga ggaactgtcc gccctgatga 4680
 agcgacccgc gggcggtgcac gtggaaccgc ctgacctgcg ggcgcggggc gaggagggct 4740
 tcgacggctt cggcctggac tccctgggcc tgctgggcat cgtggccgag ctggagaaga 4800
 agcacggcgt gggactgccg gagcaggtgg agcgctgcaa gacgcccgcg gagttcctcg 4860
 cgcaggtgaa cgccaccctc aggacggcgg tgtgacatgg ccgggcacac cgagaacgag 4920
 atcgtcatcg ccgcgccgct ggacctggtc tgggacatga ccaacgacgt cgagaactgg 4980
 ccgcggctgt tcagcgagta cgcctccgcc gagatcctgg agcgcgaggg cgaccgcgtc 5040
 cgcttcgggc tcaccatgca cccggacgac gagggccggg tgtggagctg ggtctccgaa 5100
 cgcgtcgccg accgcgcctc cctgacggtc cgcgcccacc gcgtggagac cggccccttc 5160
 cagttcatgg acatccagtg ggtgtacgag cagacgcccg agggcggtgt gatgcgctgg 5220
 atcc 5224

<210> 33
 <211> 30601
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown Organism:Unknown

<400> 33
 gatcttagac cttattcact tgatacgtgt aatagttatt acgatagtat gtttttggcc 60
 gattcctccg cgtcttcttt cgacgacgtg gaggtggagg caaaagcgaa gtagttgtgg 120
 aagaataaga attatgatta tcatgattat tattcaaatt aactctattg ttacgtaccg 180
 cgctccatgc agacgtttgc caggagacga cgggtggaag gataggaagc gaagaagcgg 240

aagcgggaaga cgtcgtatTTT gaattcgaag atgataatga tgtcattgat gctgatgatg 300
TTTTgttTgtg ataatgagat cggcatggag gcatttcaca atctctttTgt tcgcgaggct 360
taatctctga gcactcgata tcgtctTgtt tacgaccgga aagcacgtct tcacaccaga 420
TTTTgcggcg ttgaactccc ccgccacacg atacagaaca ctggaattat tattagaagc 480
ttcaatgatg ttctaagaac ttacgtgagt ccatggagat atctgccaaag aattatTTTgt 540
gagtggTgga catagtTctt cattgcattt atcaaacatc tttggTTTTc tggTTTTcatc 600
gcaagaagac gaagtgaag atacactgcg acgacgccat cccccaccac aagaagcaga 660
gcactgaaca atcgtacatt agtaaattct aaatctgaaa attatatatc ccactTTTga 720
ccaatctcca ataatccagg atccaatatg ttcttctccc tttggacagg gttcaagtgcg 780
gcaattTctt gcactTgtt gtctctTTTg cacatcaca tcaacatctt tcaaaatcgt 840
ccgaccaccg tcttcgcac tgacgcatgt aacattTcta cTTTgttgaa catgagTtcc 900
acaagtagct ggacactctt ccatttcgcg cattTtccag tatgaacaat cacgaaggcg 960
acaattTctt gttgatactt ccttatccaa atgattgcaa taotcatcag gaagatcacg 1020
aacatgatct cggcacttga gaagacgacg ttgagtacca ttaccacaag ttgctgaaca 1080
ggctgtccat ggtccggtt ccctcggat tggTggtacg tcggcttgaa gTTTTtgaag 1140
tactctgggc ccatcacaag tatctTTTTc acaagtctt tttaggcgtg gacgagtatt 1200
ctgaaatgat atTTTcgTtC aagattaaaa gcaaactgaa acgtactcga tcacaaaaat 1260
attcatcaac aatagtTcct tcagatccac gagtacacga aacactTcta gtctgaattc 1320
ctgatccaca agtgactgag caaggggacc aatgactTgg tttccaagat gtacatggca 1380
gaagatggca agTTTgacta gTTTctggca tTTTggtatc tccacaaaaa gaagcatcaa 1440
cagattgttc gcggtatatg cattcggtt tacgttcccg atgaccgatt ccacaagata 1500
cagaacactg aaacgtatTT atggtattga caacagcaat tctggagtat ttgaataaac 1560
ttacagcact ccaatcagta tttctccaaa atgggcaagt gcctaaatta catgtctgat 1620
gagaagcagg ccgatcagat gcagtaccac aaagtgacat atcgacttca gttccatttc 1680
cagaaacaca tgaaactctt cttgacgacc atccatcctc acaagaaaca ctacactgag 1740
accatttctc aagTTTatat tttggacatg attctctatg acatggTTTT gtaattatct 1800
tttccatttt aaggcaacga tgttcggta gtactgatct atgacgatcg gtacaattag 1860
cgtctcgata ctgtacacca tctccacact tagctgagca gtcagaccag actccgaact 1920
gccaccaagt acaagcatgt tcattacaat gttctTgtgt ctgtgctgga ccacatctgg 1980
atgtatgtgt ttcccgatcg gctgcacca aacattgagc atgacgcatt ttgactccac 2040
catcacaact tcgagagcac tctgaccaat gccataaac ccatcttTga catggaattc 2100

tggttacattc ccgttctgtc gcctctttct gttctctgcc gcacaatgac tcatcaactc 2160
gacgattcga atcatcaacg caatatgact tccgatgcat ttttccattc gatccgcaag 2220
tttcagaaca tgaagtccat tctccatagt tccattttct tccagagcag tcaatgtaac 2280
aactggcaat atcggatggt tttgaattac gatcacatag atgttcggat gctggagttt 2340
gacgatcacc ctccattttt acgcaagaaa ctcgttgacg tttctgtcca gatccacatt 2400
tggcactaca actagacaca tcttcagtga tccatctgta aatataaaaa tttattatag 2460
aaatctaattg aaaatatgta gtttaccttg tagaacaatc tatattgcac attcgtgttg 2520
cttgttttgg tttgagaaca ttttgacaat ttctatcatg actttgacga tgagtcgaca 2580
tgtccagaca cattaatttt tgcgattgct gtccacgaca ggctctatca cattctgtcc 2640
aagtatccgt aactctccac aaatacaatg cactggatat tggccgaatt acagcatttg 2700
gaacagccgc agtcatgtac tcatatgaga tgtcgggtgg atgactacca acagaaagaa 2760
catgaacata aatgtcactt ctaatcggac cagttccatt tatccgttca ataattgcat 2820
cagaaccaga atattcgaga acagtgtctt ggaatgcaat ttgttggcga gccagtgata 2880
cttggaaatg accgttaagt aggaattcac cattggcggc acggagagct gaaggttaaa 2940
ataaagattt tcatgggtat tgataacaca aggggtgagtg atgaaaaaag taaatgttcc 3000
aaaaacactt tgtatagaaa ctacaaaaga taattgtcat cttctttcat attattatat 3060
cctttctgcc ggatatcaat atttgcagaa ccagctggaa tcttcattac ttcgttataa 3120
ccaaaggttc cttgctcatt aaatgttctt ttgacaacct tacaggaaga atcatcccca 3180
ccgcaaacac cacatttgtc tcttcggaga gttgaatgaa gttgatgac acagcctgaa 3240
aatccactta ttttcaattt tcttttgaaa tcagatcaat gttacctgct ggcatacaag 3300
ctccagctac acaaatatcg tctccatttc tatcacatgg tgttccatca acaactttat 3360
ctcgaagcag atagaacgct gcagatccac tgagccgaca atacagcttg caacgttcat 3420
ttggtgcaac attcgcata tttggaacce agtgagtatt cgttgaagcg acaccttgga 3480
ttccaatata tttattgttg aattcagaac attgaacttc acggtatggt tgagtatccc 3540
atgggcattc ttgtgtatta catgaccgat aacgttctcg ttgaccaaca cagtactttc 3600
caccatttcg aggtctaaag taatatggga aaatgtcatt ttaatattga taggaaagct 3660
tagccagtggt ggccataaag ctggaagttt ttttaaagat gcgttttcta tcaatttaag 3720
ataaccggct acttcagggtg attctataaa ttttataaag cttggaagct aggtaaatct 3780
gaaaagcctt aaactatctc gaagcggccc gaaagcccag aaaagcagag acggacaaac 3840
atttaagagt gatcagaagc actccatacc ttgatgttac atttgatttt agtgtttcca 3900
cctcgttttc acttctgaac tcgccgattg aaaatatattt gattgaatat attatttgct 3960

ttcagactat ttgatatcat ttogtttggc agtttaactc actttgggct gtcacaatct 4020
cttaatcctt tttgaacacc accaccacaa gtacgactgc attctcccca tgatcgccag 4080
tcaccccatg gtccgtcaat tttggtaagg gattcggggg ctagacgaac acaggctcca 4140
tgatgacaga actaaatata caagttttta tgagtttctt ttgtgattaa tttctgagat 4200
actcaccatg cttcttgatt cgtcacaagg agttccgtcg gcccatggca tatgctgagt 4260
tcgacagccc atctggcttc cgtagaatgt tgcacaccaa agacggcggc atgtcggctg 4320
taaaatatca atgtttcatc ttaaagaata tatttaggca aactaaccat ataagggcac 4380
aactcagaag ctggtccaaa tacaaacttg cactgttgat gagcatcgta tttctttcct 4440
ggttcatcac gtacaaagac atcctcgtag taacgacgtt cgaccggctg atcgaataga 4500
cattgagttt gacctcgatt atttctgaca aattgacaat taaatagaat caaaatttta 4560
atagctatct tactcgagga atcgttcgag cattccagct gaacatggcg accaactcca 4620
tggtatgagt ttatatcca acgttggtgc cattatgtgg aagttgttct gaaactgcgt 4680
tttatcaaat ttagtgcttt ggaacttgca aacottatta accggcatgt aggtagagca 4740
ttttcgttcg tcatcatgag gaatcgaaaa cacatgaccc aattcatgag caattgtgaa 4800
tgcagcactc aatccattgt cttctatgat tgcacaaact ttttgcata cacacattgt 4860
tccaagttca gcaagtccaa gtgtatcgca ttttcottgt gatcgacaaa tatctttacg 4920
cgtcaaaagg attgcaacgt catgatgttg gacactcgaa tcatctggat cattgtaata 4980
ctgctgccat ctacagaaat cttgaagtgt ttgttgagcg ttctgagtga ttcgtggtcc 5040
agcgttttcc gttttcaaaa cgatcaactt gacaacaacg acattgatag atgcacgaag 5100
ggattggtga cgatagatgg aggcaactgt ggagaagaga gtgagaacgt agtcttcaag 5160
agatcttcog tgatattcgt acatttttgt atccgccacc acaaggactt caacatagtg 5220
atoccaaagag ttggcagctc ttcgggatct tgctttgcgt tctataatta aatccttttg 5280
tttcataaaa ttatttaaac atttttttac tgtatcctc ctattaatct tgcaccccag 5340
agctccactt tgacctatct ttgttgctat tgactctatc aaaaactgtt caactatgaa 5400
aatggggatg caagactaat aaaaggattt ggtaactggt tccagtagag ctttttttac 5460
tatctgtttc attgattcaa ttttcagatg tttatataac catcttaacc gttcaaactt 5520
cataacatag aacagcctgg cagcccgtga aaagggtctg aaatcccagt aatttcaatg 5580
gcattcgacc acacacaagt gatccattat cctttgctct tttacttcgt taactaccat 5640
tagctatagg ggaccacga gcaaaattct atagtttctg tgtgtgtag ggtgttttaa 5700
tgggctatta cacaacaccc gatgggatca gcagaatctg agatcttttg ggaaccggaa 5760
aaaaatattg tgataacttc tcttttttct acatttttta cagaactagc aggtaaaactt 5820

tcagattgaa atctcgaaaa atgcatccgc ctactcaaaa agtcgttttt aaaatgattg 5880
tttctttgtg tttgtcctct ttttcccgga cgtacgcaac acaaaaccgc ttgcgcgagg 5940
atgtacacaa aacgtacgtt ctgcgcaatc ttttccctgc agctctctct ctctcacttt 6000
ttctactcca taaatcagtt ctctgtctgt ctcccaccac ctaaatacctc atcagcatca 6060
tcacagtccc cccaccaagt tcttgtgtct tctctgacct ttacacgtcg actagggaaa 6120
agctctcaag cagacactcg agcgccagtt gaaaaaata gtgtgtccaa atgagcagtt 6180
tcgaatttga accgtttgtt cttgttctga cataaaccca aaaaaacgaa ctaggcggca 6240
aaagagatct ggataatcta aagaatctag acaaatttca gaagttctta ccaataacat 6300
cttccactg atcttgccac gtggcaaccg tcgtctccgt ctggttgaca ctggtcgagt 6360
taagatggtc aaacgatttg aagtgcattg gatcgaaactt tcggacgaga tgttgccat 6420
ggcgacttgc tccgtcgtgc tctagatgtt taaagtgtca gagaaagtga ttacaaagtt 6480
tctacctgtt ccgtttccac taataattgg ctcaaccgta tggattccgc tgggtagtgc 6540
aagcattccg tactgaaaaa ggcttttatt caccaaaatt cgaacttata caaaccaatc 6600
cgtcttccga gtcgcataaa ttgacgatgc tgtgctgatg tacaccttta acgtgtgcac 6660
ggtagatata atcgggatct gtccgagaca ttccacctct aacctcctcc tcgagatcca 6720
aatataagac catcggcgcg aaatttgaat tggaaaagtg gggaacactt ctggaattga 6780
aaattaatac gactgttata ataaaattga aatctcatc ttgttatgtg agtccggtat 6840
ttgattccat ctgtgcaaat gaacgatgta gacggcatca tctgatcgta atcgtaagtg 6900
acaagcatgt ccacagtctc tggcaactcc ttggagtcca cgtcgccgat ctggtgacgt 6960
gacatcacgt tttccacgac gtccataaga atctcttcg acgatgtgat ggctgtcgat 7020
gacgtgtata ccggcgctct gacgccatcg actgtgatgc actggcacac ctgaaactta 7080
gaacattatt tcacttcaaa actttttgga ttgttacctg agtacttggc cctggagAAC 7140
agcacatctg atgagaattc tgagatcgtg ccactccctg ctgaaaggaa catttggtta 7200
aaaacaaaag ctgataaatt aaaataatta gataaaaacg aacattgcaa cgcataaacg 7260
aggcagacga cgaggagtat gagagcggcg acgacgggct gcagcagatg gaatgagccg 7320
ccgatggagc gcataccaac agctccgtga tgatgattat gattgtgtgg agagcagcaa 7380
agaaaaaaga gatggaaaga agcagaagct ccgataaagt tcgtccgtct cttctgaaac 7440
cttccaaaaa ctacctgctc gaggtgaagg gaagtcgtct gattgaactg ctactgcttc 7500
tgatcttttg ataactctcc gagtttgtgt tttcgtttag tcgaattaaa attgtagatt 7560
gtggaatgag cacttgcaat agggAACaga gcatcacaga ctgaaaaatt aaaaattatc 7620
tagaatgcaa gcaattttta aatttgtttt aaaatcactt attctgacgc catcttcttt 7680

tccgatttgc gcagaataaa taaaaacttg actgtaatat tgggaaaatt tcgaaaaaaa 7740
acaccgttaa gtctgagccc acctttcgcc tttttttggt gacgaaaaaa accaaacaag 7800
ctttaaattc ataaaattcc caatttttaa aacatctaaa gtcaattcct cccaataatg 7860
catttgata tgaacaaaag tctgttgacc ataagtcgtt atattactac aagcaattgg 7920
tcatcaaaa acctcataaa aatcagtttt gaacgggagc aatttatata aactctgtgt 7980
gctcttttgc tctttttctt atttcttagt tgtcttctag ttccgccacc actttcgctg 8040
ctcttgacga aatctgtaaa ttgttcgtca tttttgattt ataagatttg tttggctctc 8100
ggtaggagct ctcaagctgc taatagtcct atagtaaagt actaaaaaca caaagaagca 8160
gatgaagggtg tcataaaaca ctgataagaa tcatcatgat taggttggtg cagagaaaag 8220
aagaagaaga aaaaggagat ttagagaaga gaaacaagaa taaaaatgca aaaataaaaa 8280
aaatagtaat aacaatgaac gcagagtctt ccatgttgga gaaggaacag gacccatggt 8340
gatgtgtatc tgaggggatc caatgtgtag tgatggtagt aaacacttga gagggaaactt 8400
cccccccgga ctagatgatt ggaagcaatt gatgatagat gtagagccaa agaattggga 8460
cctactaatg atctagtcaa gattcttctg ataagagaaa aagacaagga agaacatgaa 8520
aatgactggt gattgaaaaa taaaacggtt tatgaagtcg ggggtgtacta aagatgcaag 8580
gtctcttgtg acgtattttt tcttcaggc acgttcgctg tattcacgat tttatgcaaa 8640
caaggtaagg agtgttttga attttgaata taaaaattta aaagaaatta aagttagaca 8700
tttgaaaaat tagacaccct catgggaaaa attatagggc gaggagaggc ggtgagaggc 8760
gocctaattt ctgctcggtc gggtagaatg tctaacttaa atcctacctc atgtttggct 8820
ccttcttaaa tcaaaagctt aaggtcatct ctgaaacgtg cagttgacaa gttcaatggt 8880
aagaacaggg agcaagcatt tacaacaaaa aagtaaaca aaattgcatt tgtcgcagtt 8940
caaatggaa caactcactc ccactcgaga acgttttgaa ggggagagga agaagaggaa 9000
aatcatcaca caggcacatg gaacttctgg gacacaaaac aatacaaact gggtgccgtg 9060
aatctcagta cacacacaca aaaatcaaaa aagacggaaa ttaggagcag atgtggtaaa 9120
gggtggttca atgctgatgg gagagagagg gagaaacttc aaaaaaagaa gtttagattt 9180
atgttggtca tttcaatcct aaatttatct aaacaattct aaaaatgctg gttttggaag 9240
gttatctggt aatggtgaag ttttataaac aaaacaagac aaacaattct tgagatctta 9300
aaaatcttag cgactacaac aatatttagg ttttttttaa tggaaaaaag tattgattgt 9360
tgacttggga aattgaacag caattttttg tacttttaaa tcagttatat tttaactttt 9420
tagagcacat ttctgtagaca aaagggaaaa cgattggtcc aacatgtgaa gatgatgatg 9480
tcaacaagtt ttggatcgga gccaaaaaag aaacaaaaca ttcataccat gatgggaaac 9540

aagaggtgca gcaacaactt ttatcaatat tttgtttatg ttttgattat ttttctggca 9600
cccagccagt aattcttttc cgtagagttg acctagaaaa tgttgagggc ggagtcttag 9660
gatcaagaga cgcagactat caaagtaaaa tgagtaaaag gaagtgatat aaacttagga 9720
aacggaggaa aaaaggacga tgataagaga ttgaagactt ggaagagtgt gctctttgcg 9780
ggagagcata ttcttttgag aaaaatggga cctaggggca actgacgcaa ttgaaacatg 9840
gtcgagcggg cggcgggaag acaaaaagtg aagaaggatg ggcaagaaga agcaagagaa 9900
atggcaccca ccgtggaaca tgatcatgat gattgagagt gaaaattgga aatctcgaac 9960
ttttttgcaa cggcgcgttt tggaaaacta acaagttga ccaaaaaatt attttacatg 10020
tataccggga tgtctaagaa ttgtaaaatt gagtgatcct ttctgtgaca taatttaaag 10080
caatttattt tggttatttc taagcgcctt tttatactag catgttatat tgttaatttt 10140
attatctaaa ctgccgttct tcctatatatt attattgcac cccctttggt cattctgaca 10200
gactatacct cgattaatca taaaaatgtc acaaaagaat aaaaacaact aaaattaaga 10260
aaatacaaga aatttatcaa ttgccaaaaa ttcggccaat cggaataatg cttggttgcc 10320
aatttgtcaa aaatttagtc aattggaatt tgtcgatttt ccgaaatgat atgaaagttt 10380
gaatgatgca gctaattttg cagtttaagt ttacattttc aagtttactg taatttttcc 10440
aaaatatgaa gaagagtttt acgaaattaa aagataataa aaaagcaatg caaacatagc 10500
tatgaaatct gatcccgact aagtttgatg gacataggat taataatatt agtctaactt 10560
tctatagaac actaaataaa tacattcact ctcgaaactc tcccttttct gccatcaact 10620
accgtactca cttttgactc aatgacccgc aactgtcaag atgagttagt ttcaagattc 10680
totgaaacag caataatcta acaagagaaa ctgaaaaaat agagtaaaac taataataat 10740
accacataaa ttgacatgca tgatagatga ttttccggtt ttcaacaaga aaaacaacaa 10800
tttccgagaa atcctcatag tttttggtaa gaaaaaataa attgatagtg atacggtatg 10860
actattactt ctaaagactt acctgattag aaacgtgtag taattgaaga agaaaagttg 10920
aatttgagaa gttgaatcga gtttacgatg tctgaaaaaa acatagatat tatggtaaga 10980
tcaagcatag aaaaaatgga aaaatacaag aaaatagaga ctagagattg cataggtttt 11040
gcggtggcga aaccgcacac atttttgtct gtgttatctc taattttacg ctctcgggtgt 11100
tctctattta ctgtccagaa gaatgaagaa tatgggggaa aagtgcgcgg gaaaattgag 11160
agaccgagtg atgagagccg cagttttgca aaactttttc gggcaataat ccgccggcga 11220
gtactacgag aagcacacac acatacgaaa actgttgagt taaaacctaa aaaattgttt 11280
cgacatattt aattttcgaa ctaaagttta gaggggtctgt gcgtgcattt ttgaattttc 11340
caaacaactt tcagttttgc ggaagaaaat tacagcgatt ttttcgaata tttctgaaaa 11400

caacactatt gcgtatcaaa aattttttoga tttgccaaaa ttcagactaa gttttggtgg 11460
ttttggtttg caaacattta aaagaactca aaaaacattt ttagatgttc gaaaccgtac 11520
aattgtagga tacaaatagc tacagaacaa ttagaatata aaatagagtt gtcaaactg 11580
tttaactaat acaaaaacac agaaactttg aaactcgaaa tttttatatc aaaattgaaa 11640
aagcttgtaa aatttaaata tggatacagt acaacaata taatcataga tcaaatagtt 11700
catttattta tatatcttgg caaatcaaat cgtatccctt acccactcat attcgatgag 11760
totacaatta aatcagttgt tttttcatcc tcccggacta ttagtttaac ttccacttga 11820
acaagggcaa agagtacatt aggaagagtt tatgatgaca ggaaaaaagc tatgtaaaaat 11880
gacctctttg gattgaaaaa gcgaacgaat tgagggttag gacccccgga aaatgaagaa 11940
ttcgtggcct cgagaatagc aaattggcgg aattaattat ccgtaagagt gtgaattgga 12000
aacaaccggg acgaatggat tactgaatca aaaatgaaag aaagaagaga tgaaaatacg 12060
tgtgaatcgg atgaaatgtg atgattttag aataacctaa atgcaacaaa acgacgtaaa 12120
gacgcggaag aacaggaatg atcaaggggt acatcttata ggggaaaaat gcactttttg 12180
tgctccaaat gtgagagata atcaggtagg aagagacgta gaataggaac aggaaacggt 12240
aacgatagtg cgcaggtgct tgattttctgt gcttttgcac gtgttccgat ggaatttttg 12300
gaacttttca aggggtttcg gaaagggttc gagatttcgc atgtgagctt tggaagaatt 12360
ttggaagaac tttcaggata acatcgctca agcttgtttg ttagatttca gacttcaaag 12420
tatataccga ttattgaaac attttaatcg tttcttacta ttagtaaagt ttaatcacag 12480
tttgaaaaaa aaatcacaat tttttcaatt atttagacca aactaattat ggtacagaaa 12540
ataacttgca acccgggtat ttcatctaa tttttttcat ttggaaccac tagtttttga 12600
aatagaaact cgtaggatt cttcacatat tatcataact atcagtattt tgttgacat 12660
cagatctaag ttcagtctaa ttagaatcgc aaatttgacc atcacacttt aaaacaaatt 12720
tacttaggca cagggcatcc ttctaacttt tttgtccccg acaaaatgat gacaaaaatg 12780
acgtgaggaa tcaaggagaa aaaggaaaag aacaggaagc gaaaagtagg agaagctctt 12840
gattttctgtg ctcatctt gttcggatga gctcactgtt tgcaacattg gcgttggtgc 12900
gcgggaatcg ccattgccga actttttcaa gagacagaga gagagagaaa gagaaggaaa 12960
acgttccgat ttttaaaatg gaaaaaaatg aaagaggaag atgatgaaaa aatgaactct 13020
gcgtgacatt tgtaatatg gaaaaagcat gattacttca aaattgtaca ctaatcccca 13080
cagcacacat tttgaagact tttttacaaa aacaatggtt taagcaagct ttaaaaaatt 13140
gatagtatcc ttaatgctta atcatatcca agtttagttt taagttttga tttcaaaaat 13200
ttctacatca aaaaatcata cttagtgtt atatgcaaaa caatttttaa attcaaggac 13260

atatttttga tttttggaag gatgataact tttttgtgat tccgaaaaag attaaagtag 13320
gtttaaaacc tctgaccttc tacagaaaaa acattacctc tatgaatttt ttttcatctc 13380
gttcagaact tgtctcgggt caagccatga agacatgaga taggggtgtaa aacggtccga 13440
agagagggttt atgactatta ttgtagttga agagaaaaat gatattctcaa tggatttcat 13500
acagatggtc ggatttcatt cataaaatat cataagaaaa ggtacgttta tgactgtcta 13560
ggtcaactgg ttttaggttt cttggaattg tttcaaacat ttttaggaaa tattttcttg 13620
caaatatcta ctaaattgaa gtttggttatt gtttttgaca tattgtagat tttagagaag 13680
aatcactcag agcaaaaatg ttgggaaaac gtgagaaaaa tccaagagac aaaagaatgg 13740
tottactatt agtagatcaa aaaaccagac caattattca tattctact attcaatata 13800
tattcaaaaa tgagcaaacc aagaaattgc acctaattha tcatcccaca tatattccga 13860
cgaaacattc gctctacctt ctttttttct gtctaggaat tataaagggc cataattata 13920
atttcagtca aggtttttgga aaattgttcg actaaccatt atgaaagtta aaaaccaatc 13980
agtcaaaaaca cacaatagga atataaaatt cgtagaagaa aagctttttt tttggtcgaa 14040
agcaaaatca aattctggaa ctgcgacttt tttagtcaa ttatccattc aacgcaagtt 14100
gtctttcaaa atttaaattc cagaagagtt ataacaaaac agacaggtgt acaagtaaaa 14160
gaaaaataca agttttatcg taaaaactga tacgaatcta gatacacctg ttaaaaaagg 14220
ctttctcgaa acccagatgc cgtacgaagt aagcagcagc caactaaaca ttttgagtaa 14280
acatatggca agtgtttttg cgcaaattgt aaagattttc cgtgtgggta actagaattt 14340
gaaactgtaa gtatgacgac ttaaccacac aaaatcaaatt tcaaaaagat cttaaaatgt 14400
tcgaactttc aaaactttta agctctctcg catctaccgt agtcttctaa taacaacagt 14460
cgtaagagaa agctcaaaat ttttcaaact ttttctgaat gacagaatca gttgtatata 14520
aaaaaaacc ccaaaatgcg agcccatga acctgacaac cagacaagtc gaaattgtaa 14580
aatcgtatag atcttggttc acgacatgaa gagcaccgcg ggggcacacg agagcaacta 14640
ctgcaagcgc tctgaagag aagaaacatc ttttttccag gaccactggc cagtgtgct 14700
ccccagatc actttctttt ttcttgcttc atctgatttg tgtctgcgtc gtctgatctc 14760
tttagaacct atccttcttc ttcttctttt tgatacttcg acatcagaac aacatcgaca 14820
tgtatcatct tttctctttt tttttgtta tctattcatt cattcacttt tcatttagtt 14880
tgattaatag gtgacatgaa ctcttgctac ttttcaattt caacttctta aatcttaaac 14940
tcacagtgat tccagatatg agcaactcca atgaggtgtt gagtagaaac ctaaataata 15000
cattttggat gttttgataa tggttgaaca aataaattga aacaaacaag acttgaaata 15060
gagacaacgt gcagaataat gtctaccagc tggtttcagt ggcattattgt accacgaacg 15120

tccgacagaa cgaataacat aaagatcaag aaaaactggt tgggagcaga caaacaatca 15180
gaacacagtt ttgttgaggg gaccaaata taattaatga ctaaatttta acgaagaaag 15240
tgctcgaaaa gaacagaatt tagaagttga tgaacaatat ttttactttt agattaacaa 15300
ttatgcttta caaatgacat ccaatctaaa gcatctggta atctgaaatt tgtcaaaaca 15360
gctttcaaga ctagtttcaa atttgtcgat tcaatggatc aagtgtgtaa ttgatccaat 15420
aaaaaagagt ataaagtgaag aaggaagaaa gtgtgaaaaa agaagaacgt gaaacgtgca 15480
gaagatacga aatgagtttg aagactgcac ttttcgagcc tcgatgggtca gtcacttggg 15540
cagttgcgaa aaagctgtga aaatgataca ttgtgtcggc tctcgtagag aagaaagcca 15600
catggtcagg atgactccaa ctgggatatt cagttgtaaa gaacacaatt gatatttttg 15660
catctttttt aactagtttt tacaatatga gaaattgttc tgtgcgaaaa atatgacttc 15720
ttccttggtg ccgaagtgtg tttccctgga aattccagta aatacctaata gtaaaaaatc 15780
tcagcagaat gtgtttcttac attttggtgt aataataatg tattaataat gcattaatta 15840
aaaatttctt caaaatgttc ctacgtcttc tatgcacatt atttaggtca cagtttcatg 15900
gagcacaaaa cacctgccga cgcctctaaa atagttataa ctgcgcatga aatcaggtag 15960
aaaaaactac aaaataacca atacaaattg agtagggcga tggagagggtg ggcggttgga 16020
gaggcgggca acaagcgtcc tcatgacgcc ttgttcattt agaattgtgt tgctttgaat 16080
tacatacaag tttctaaaat ttaacttaca aaatttaaaa aaagtcacaa caataataaa 16140
agttgtggca atgaaatgtt ttaaaaatct aaatattgag ttttaataaa atgatttttg 16200
aaaattcaca aagaaatgtt acaatctgtg aatgaagacg aacaatgaaa aagtgaggaa 16260
cggacgcgga tattacacat tcagtcacac aataaacgtt cggacactac cacacatttc 16320
tctcatcatt tttttccaaa gtttattcta aagttcaata ttttagtttg attatttttg 16380
acactattct taaaattaat gtataatagt ttagaaaata ttttgaaaca tgaaactttt 16440
ttgttgataa aatagtgcc aacatcctta tgttacgcag ttatccaacc acatttttct 16500
catttttcca ccaaaaaaca ctgaaatggt ccataaaacc tattcaaatg gatatgagaa 16560
tattactttt ttgacatgaa attttcaatg atgtaatgta aaacaaagaa aaatattgcg 16620
ggaaaaattg aacggcgtat tgcaaaaatc ggtgtgcgga ggaggagaag gaaaaggaag 16680
agcaggagaa gcggaaccgaa gaattcagaa gcttttaaaa taagaacggc gactttcaga 16740
caaacaatgg actgttgat aaaaataaag cggaggcggt agagagtcaa agctttcaga 16800
aatgtattag aataggtttc actacctgtt gttgaactca aaaaggtgtg aaaaagtga 16860
agtttgtctg aagtttatga cgggaagtgt ccatcaata actttcaaaa tttgacttat 16920
cagtgaagaa aacacgtcat tttggaacgt taaaatgggt ggcaccgcaa aatgttcaca 16980

atgtgaagtg aattacgtaa taaaatcagt tttattaagc ttattaaact aacccttccg 17040
gactatttgt ggaatgaaac aattgggggg gttttttttt ccaattttcg attttttttt 17100
gaatttataa ttaccggaac aaaaatatct ttaaattatt aagatttgag tgatgtttga 17160
aattttgaac ctgcaaaaaca taagcacaaa ataatggagt ttttgtttta aaatatcaat 17220
agggtgtttt tcacagaact ttaaacaaca aatactcata atttgaatga aaacagtaga 17280
tcccacaata ttttgaaaac ttatctatat atatatatat atatataaa ttacgaaaaa 17340
aaaacaaaaa gaaaaaaaca aataatttgt cagttgataa tttttagata tgagttgccca 17400
aaattgggca atatggtgaa gaaatacggg agttcgtcgc actgtcagac taattttcaa 17460
gtgttcctag tggaatgaaa ctaacagaag ctatacggta tataatatta ggaacacaat 17520
taaaacgaac agcgggaagaa aagatctagt ggtcacttcc gatttctcag ctgacttttg 17580
aatgggcacc tatcatcatc tcaactgttt atttgaacag tctcgacttt ttccaattgt 17640
tggcttctag ttcaagaaac gaaaaaaaga gcaataacgg aacagaaaat tcagaaagt 17700
gaagagaaat atgagaaaat gatgatgata ataataataa gttagaagag ggttatcgat 17760
gaggaacgga aacgttatct ctgatcgcca tctcattatt attatgagac acaaagatgt 17820
aagttatggt atctttgaaa gaaaagaaaa caggaaatta tacagaacac acacaatttc 17880
ggagatttca ttcgaagaac ctaacccaat ttgaactcac tcccacttcc tcttgtctat 17940
aaaacagtca atcacaggaa cagggtgtctg tcttttcaaa atgtatacgt tttccgaata 18000
atgacacaca atatcacaga caaatgatc aatgaggttg cagaaaagaa tgcaaaaaaa 18060
tatagaaaga gaggggtgaac aggagataga gaatcaaaat ttgcatagat aaatatgcaa 18120
tagaaaataa caatttttga acaacaaaga aataatttag tggcatataa tatagcgatg 18180
gaacttgcaa attttttagaa ttatcatata aaaataacaa tgtttctata ttttatgccc 18240
tataagtctt gcagtatttc ttaaatttaa cagttcattt cttggtaatc tttattttta 18300
tcaagaagtg ttcaggaaat tttaggacat caaattttta tttattttct aaatctactt 18360
ttatcaaaat ttttagaggtc tagtacacat ctacccaaaa agaagacttt ggagctctca 18420
aaaaccacct agtgtatggt aaagtacatg agaagtgacg tgtctttggg cagctggcca 18480
tctttgtcga tatgcgggtg atgggtgttc tgtgagcagt aacaggaaat tctggacacc 18540
tgctagggtg tcaaaccaaa tttatttcaa ccattcttg cttcaaaaaa ccccaacta 18600
aattattcaa attctcgtaa tttaatgaat cactcagtaa ctgtaacgtt ttttttttca 18660
gagacaatga tcgaaagtta acaaaaaaaa ctgaggatta aacgttattt ggtatctaca 18720
gctgacattg gaacatatca aaaagtggta agtgaaagtg aaacgaaaag tgcaacattt 18780
gaaattgaga gtagaaaaga tcattgaagc agaaatatgg aagtgaattg aaagccgtgg 18840

cgccaaaacg acggtcaggc gccattgaga aaattaatga gagttcggaa ggttgaaaca 18900
acacaaagac aacgtgaaaa attagtttgg agaagataaa aaatgtctgg agatggacga 18960
tttcttagtt agctgagaat agtttacatt gattttcggg aaaacgcaga atgttagaaa 19020
aatggaaaca tgtctagact tcagataaat ttgtagaatt tatatttgta gcaaaagcac 19080
actaaciaag gttacaaagc tattaggaaa aatacggaa gtatttttga aaatttttga 19140
tttctctaaa ataataacac cattaatttg ctatatattgc tatatatgct atatagtatg 19200
ttcgcattac tgagcacaaa acttgaaaa agtttaaaaa aaaaggaaac ttgttttctg 19260
gagaaatcat taaaaacagt acaatttcag acagaaataa atctttcagt gaaagctttt 19320
ttttgagtaa gactaagtat gcactcacia cttttctgag tgttccaaaa atgtttaaag 19380
aaaatactag taaaaatgag catttcgaaa agcaatatat catacaacta caciaaacatt 19440
tcaattaaag gaatcaattt tataatagtt ctaggcaatc ccacttttag attcaatttt 19500
ctagcacagg gagcattgga agatataaaa acataaagat aaagggtgata aaagatccat 19560
taaacacatc atatctatca aaccatcact tccatcaaat ccacagattt atcacaaatc 19620
agtgtgtgac aaatataaccg taatattaag ttcaaattgg ggaaaagacg cagacaaagc 19680
ttttgcataa atactaaata attgaaagaa acgcagagaa tgtaagagaa aaatatacaa 19740
tatgtgtatt atcaaccatc aacagttttt gattaaaacc atggagaagc gatatacagg 19800
agcaaattag gagacgcaga ttgagaaaa atgagaaaat aatgaaagta cggagggtt 19860
attgtacaat aagacaggta gcatctctca aagaacctat tgtcaagcag tttaaactt 19920
caacaacgtt cttttatttt tttagccttca ttatgatatc tcattggttc tataattgga 19980
ttttttaaat tcagatttct cattcatgta caagtaaagt tgtaattgg ttattatgcc 20040
caaagttaa ttatttgagc gcagaaaatt tgaatggaaa ttccagaaaa ctgattcatg 20100
ctaacttcaa aaaatcctga ataaatacca attcttttcc aagtatgatt ctcgagcctg 20160
tttacgtgcc tgctacggc ctatttttcta atttttttaa tgataaaatt ttagagtaga 20220
tcttcaaaaa tcttctttaa aaaatctcca aaaaaatcaa gttcaggaaa actaaagtac 20280
tccaataaaa tactcttatg caaaaacccc ccattcattt tgcagaaaa gacaaacaag 20340
aattaaagat aaaaagttat gatagacagg aagctgattt attagatcaa tgaatcgact 20400
tttagttttt cttgaactct aatttgaaat agtattcgaa tgagaaaatt gaaaatatac 20460
aaagatcaa agttataatt gaaaatcaac aaattgatag tgtttgata ggattaaatt 20520
aaaatgtgcg gtacatgaga cagtagtagt agtagccata gtacgtattg gtggctccac 20580
tcggctactg ataatttct tttttactga taatttgatg tcatttcgta attttatttg 20640
tgtttccaaa aattgtgggc gtgggttatg aattggtcaa gacatgaatt aaaggaattg 20700

taaagtaaag aagaaaatga cagaggagaa attattttcg tttgctttgg aaattgcaaa 20760
ataaattaga ttattaaaga taatagttac ggttttaaat aaataggtga taaaaaaata 20820
tccaaaagtt caagtcctaa gaatcttgct attttgcaaa aaaaaagcat gagcttttgg 20880
cctaaaaatg gcggacagct gtcgggacac tatccaagaa ttcgtgataa acgggtgaag 20940
cacgctctct tatcatcatg ccatTTTTcg aatttttaaac tcagactttg ataaagaaaa 21000
ttaaaaagag agagtgtgag aaataagagt acacatggaa aatgcaagat ttgaatttgt 21060
ttccaatttt taaaatgtat ttaaaagagt taccgttcca tttttgatta gctttataag 21120
tggaaaaatc gtttttggat tattttttga ggaatatttt tgaatgcgct ttcaattttc 21180
ctataaaaaa ctttTgtttc acttttttat cccgttttta tttttatttt tacaactttc 21240
aaatttttat gaatgtttta ttgtaaaatc ataaaaaggt gcgaaacatc taaattgcct 21300
ggattgcatt taaaagtga ttagcagaaa tgtattccta tggaatgttt tttgtgcaac 21360
gagatccaga agctcgaaaa acatccaaat ttcttccaag aaagttgatg ttccaaaaat 21420
aaaaaagatt ttagcccaat caactaaaaa aaaactctcg tttttttcat atttcacatt 21480
ttctggtcac tttgaaggaa aactaatcc caaactgaga accgaacatg gattaaacca 21540
tcccatttac tatttcttgt tgtcttcaaa aagtcttaga attgtgcaaa aaatagaatg 21600
tttcgaaata ttgcggtttt cgttaaaacc ttttttgagt agattgaggg tccattagaa 21660
ttccaagag aacttgatga cttcatcat caaaattagt ggtcattgaa tgtttgatca 21720
gacaaaaatg gaaatgactg aatcggaag agcaagaaaa tcgaaaaaaa aagtatttgg 21780
aaattctgga aaacttttta aaatttaaga agggcaacga taagaaacag gaaattaggg 21840
attttttagt gatggagaag tacgtgataa ggttaagggtg gaacactagt gcacacgttt 21900
tgaatacact acgtgttttt atttatggta gaatatagca cttaaagaac gtttttaata 21960
caaactgaaa taaaaatacg gaaatgtaat tttttttttt gaaagaatcc gcctgaaact 22020
gaattttcac atcaaacggt agtgattctc tttatgcgtt gggtgatatg tatttacgct 22080
gtcttaaaagt tttcgactat aatttaagta atatgtttgt caaaaatcat catgggtgctg 22140
tgtctatgt agccttttct acacttgaaa aatgataatt tttatttgaa aatggatttt 22200
aaattcaagt agaaagtta ttagtcttgt gtgccaagca ataaacacat agtctattag 22260
gcaataaaaa gtcagctact gtttgattta aaaacttaga ctactgggtg gcctgtgcaa 22320
gttactcccg tagtaoggat acagagtga aactagtgat tgtactttag atcggtgat 22380
agtgaattta cagagaaata attataaaac ttaaaatttt tagcagctca gtcttcaggc 22440
tgcacagcca tattgttaca cttggagtta caaattctgc aaaccatcta ggattgaatg 22500
caaaaactct gaaagtcaca tcaagaaatt ccaacaaaaa acacattaga tgccaactca 22560

ttgaattgca ttgattccca agagaaatag tagtaaaagt gaccctatc cattcctccg 22620
ttacatacaa atatacacac aaaaaagagt gtagacctct tccttctaac ccaaccaaca 22680
cacaacaata tcgttccctt ttatctctaa ttctctgcgt ctccataagc tttgagagct 22740
cttcggagca tcttgtgctt gctccttgta cggcgggtaca gtttcctccc tctgctccct 22800
tatgtgtgtt taggtgttgt ttgaacaaat aagtttttgg ccatccacct ctttctcaaa 22860
acctttttct tatgcttctt cttgttttgt gcacattttg gctcttgctt gtctgctcga 22920
gccatagaca aggcggcgac atttttgaaa aaattatatt agtactgtta tatagtactt 22980
aatacaacga tcacaacaac aacacaacga aatgaaaaca tgagatcaaa agacaaattg 23040
ttaggaggag ttggagtttc tacaatcatg aaatgtttat ctagttatta taaaactgaa 23100
attgctcata aaattgtgat accatgaaga ccgaaaaact ctatgcaact gcatactgca 23160
catacttaca acctttattc tgacttgaat ttcagttttt ggtgtttgca gttattctat 23220
tttgttttaa agaaaattca attaggaaat aagcaataaa ttttggcatg tatttcgata 23280
gaaggcacgt gtaaagtcca cccggaaatt agaaaaaata agatttctca aactgaaaat 23340
gattgtgaat tgaaaattta agagaatcat tgcaaaagta cacaaatgaa tcatttttca 23400
gattgaacag gaaagtgcag aaatatcaga ttaccgtccc aacagaaacc ggaaataaca 23460
cttttcaggt aaagaattat acagaaatcg taataaattt aaaacaaaag agagttatga 23520
cacattgcag aacggtctct gtggaaaata ggaggagggtg ctgcaaaaac tccttagaca 23580
tggtcatact tacaaaaaaa acagagttta actaaaaatt aaattaagtg agaaaatgaa 23640
gaaaatggag gtcttttcgcg gattcatttt acttcttctt ttttccactt ttcgttgcaa 23700
gctttggttt aaaagtttcg caaacaata aacaatgaac attgtgttga gaagacaagc 23760
caagtgaag gaaaccattg agagcaaaaa caacaatcaa ttgaaataaa gagtaaagtt 23820
tattgaatat actgatatgt gaatactgga aaaataatta gtctctataa ttggtaccgc 23880
ctggaagatt catttctgat tcccttgtgt ctttgaccaa aactttattt ttttcagttc 23940
aaaattacaa aaaataaata ctcatcttca tcgattcagt ggtgttttaa actcctacgt 24000
ttttctttta caataaaggt aatgtaaacg ttccgagcgt gtagttttct ctgaaaattt 24060
tttaaaaata acaactttat ggtatttttc ttaaagtctt aaactgaaac cgaaacattt 24120
ttgataggaa aactatttta acattttggg aactcggcaa aagctctgca ggcttgccga 24180
acaactctca tttgaaagta ataaatatga aaataaatta tcgaagtttt tttttttgat 24240
attttatgaa tacggctctt ggtagttttt gacgagaaaa ttacatgttg cataaatttc 24300
aagagttata actcatggag accctaattt ctggtttcac tagaaaatca aaaaatcaag 24360
cgtttgagca gaagactgta ggaagagcac acgtcataaa aattagggga tcaacgatcc 24420

gaaacgggga attgaaatac gatatgogat gagttttggt tcgaaccggc tttgtcccaa 24480
aaaacaacag aacgatgggc tcaggctcac ttgactcatc tcggtgggaa caatttttat 24540
ttgtttttat tccgtacgca cagaaacttt ttttgaggta tttttgatcg tgggtgggtg 24600
gaatggtagc acccaatttc aaatagtgtt tgatttgaag agacaatgaa agaaacaagt 24660
gggagataat ggaaatgacg tgatgaaatg gaacggagga aaactgggtat aaatatcgtt 24720
gactatcaaa actacaataa tactaatgga gaaaagttca ggattcttga agattttaca 24780
ttatgatagt tgggatttac tggtttcaag ttcaaagtgc aaacatctgg aagaaaaacg 24840
tataagatta catcaaaata aaactaaaat ttgaaggata aagtaaaaca gcataatata 24900
gtgttttaca tctcatgtag gaaacgaaca aaatctttga acacctagat aacttcaaac 24960
ggaagttggg tgaagaaaag aataggggcc agaatagaag gtcattttga caaagtgaac 25020
agacaaagac attcctaact cggaggtatt caaaaaactg ttccaatatt gaagaatgac 25080
actatttgat tttatatcat aacattatta atcacatggc tttttctta ggaaatttat 25140
atcgcaaaat aaaaagtggc cttgatgagt cattcattca aaacatgcct aaaaaccttc 25200
ataattaatt ataaaaatgc tgatacttga ggaccggtt ttttatattt ataaacagtt 25260
gttttcttta ttccgttctc actttgagtt tttttctgaa aatactaaaa aaattaacaa 25320
agttggcgt tttttgtcga taattccatc tgattatttt cggttttttt acctaattat 25380
caaataattt agccagagtg aaatttatta tcttattaat atgtttttca atttgttttg 25440
gtattattct gttgaaggaa catgttgcat tttaaatctg ttgttaatac agcggccaca 25500
tgtttagaac ttataacct cgtttaaaca taaattgtat gccatattta ttgcaagtac 25560
tacatgagtt tgaaacagta tcagatacta tattttaaac aaaaatacac attttccccg 25620
ctatgagaga ttctgataca ttgggtttcca atttttttaa aaacttgaaa ttctcaagt 25680
ctccccactga attacagatt tctgttctag atacctcaa agacacctag attcgacttc 25740
ggcatcttcc tcatttttat cttcagtttc atcttttgc taattttccg tacatttctt 25800
tgcatcctta ccactctctc ctctctcact cactcttctt gttcactaaa tctcaattca 25860
aatgttttc tgccacgtca tcatcatcat caatgccacc ttctcagagc ccattcgaaa 25920
aattaccacg gcatcaaaat attogatatc acgaaaaatg cttctcaatt ccacttcata 25980
cacttaacta tttctatgc gttattattt tttatttctt tgttttcact atattttatc 26040
acgaacgtta tgggtggaaa cctgaaaatg ttcaagttac atcagcaatt tatgattcaa 26100
attcaaacga actgtcatta atctttctat ttgattcttc aattcgtcga cgggaaatat 26160
tccttgagtt tgggtccaaat gactcaaaaa catcaagaaa tgaaactcaa attgagctta 26220
aaccaccacc cggtttggt gataactcac aaatttcagt agttagga tttttttca 26280

aaaaaacttg atatgaagtg ttgaaaaatt gataattggg ccgggcttac atcagagtat 26340
 ctagttatct tgtatttcaa atattaatat tcaaacattg tagagattcg aaatgcgaca 26400
 gtacttcagt aattaccacc cacattttga ctgtcaaaaa agttcccaaa aattgtcgaa 26460
 aacttttatt aggatgtttt ctcatTTTtg cacgattgga gtgttttttt aacaaatccc 26520
 ttttatgcat caaattaata tctaattttt aaatcaataa tttggattaa ttcaacttgt 26580
 tttataagat tttctcgcta ttaaattagc aaaaaaaaaac tatcttcaaa caattagcgt 26640
 gctttaaaac tactaggcct ttgttgcaa cgtcttttca catTTTggca caaaactata 26700
 aactatgctc agaatttggg aatgtttgaa aatgttttgg gcaagcatat agttattcca 26760
 attctaaagt aagattagtc atctattttc cattccattt ttccattttt cacctatttt 26820
 ttccattatt taacaaccaa gactgagcaa acattttcct gttttaattt tcatatatga 26880
 aaagacataa gcaaaagctg gatcaaagct tgggcaaatc ctattcaaag tattttccaa 26940
 cgtttccatt cctcgtttg taaagtacaa ttggaatct taaggcttaa ttaattattg 27000
 tgggagattc ataatgtgaa aactaaatgt taagatttgg tcatcaattg aaaaggaaaa 27060
 accccagtct ttaactgtga atgcagaaca tccaaagtca ttgcttttac gagatcacac 27120
 aggacatcca ttttagaag taagttcaaa tcagaaatcc ccaatccatt tttcttgta 27180
 gttaccactt caagaacat actccgattt tcgcgacatt gttagttgtt tcagtccaat 27240
 ttatggagat tttgagatgg ttttaacagg tttacaaat taatttgggt tcttttttaa 27300
 aacatttaat ttttatagct ttaacatcat ccatatcaat gggatcattt gttagtatac 27360
 catatgaaga gcttactgga gagctttaca agtttctacg tgtatttgaa aaaacgggac 27420
 atgtcagggt aactgcattt ccaatgatac gtcacagcc tcgcttcgat tcggaaaatg 27480
 aaaattatca ttgaaaatg atcaaactta aaacagattt aacgcatttg cattgttggc 27540
 taatgcataa aaacggggcc aaattcatga tcttccaaaa ctctgctgaa attgttttac 27600
 cgatttcctc gacgctggaa aatcccaatt acgcctctga atttacacga atatttgaaa 27660
 caccacgagt tgaaggatat gatattttag aatataatgt caaaatttca acggataaac 27720
 gcttaggcga cttttcggat ttctocatca ggcagacaat tgaagcagca aaagcagaag 27780
 aattaaccgg aaattctaaa acattaatca tgagaatggg atcacttttt ttcaaaataa 27840
 tttactgttt ctattttggc atttatttca gcatttcca actccacaga atctcttaaa 27900
 acgcggtaaa atgtatccat ttttcaaaaa tttcccatct ccaccacaag ttattccaaa 27960
 gaaaacattg gacaaattgg atacaataac agaaataatt gaagaatctg atgcattctg 28020
 gacacttatc aaagaatgtt cagaaaattc gaaatcttgg aaatgctcgt caagaaaatg 28080
 tgtaagacca tcagttagac atcgatctct tcatggatgg tattcatatg atattcattt 28140

ttctaaat t tgaatgttg aaagttttt ttgttcagat tttcaataaa cttttaagaa 28200
aagaataatt ttaaattcta taattcctga atttccaact atgtttatca tttcccaaag 28260
tacattcgaa aaagctcaat aagcaaaaag accacgaaat aacagtatta aaaaaaaga 28320
tggtgtcatt tgaagttctg gagtgcgatg aaaagtctct cacctcggac tttctgtaat 28380
ttatttagca tacaacatga atttgaccaa ctogaaataa ggttaagact gaaaat tttt 28440
cacaaaaatt ggaacacttg cgaagcgaat tcaagacttt tgaagttat taaacaagct 28500
ttcaaattct cagtaaaact gaacgttttt tttatgctct ccaaactcatt ttaatatggc 28560
tgctcgcgtc gctgaagtat tttctagagt atgtttaata aaactaatat gtaaatgaaa 28620
aaccaaaaac tcagataaag agcataactt ttataacgca ttttcagaac tcttcaagct 28680
ttttcagatc acttctatca gcagtattct tcttttttcc aaagacacca agaactgaaa 28740
aggttgaagg agcatcacccg gaaatagagg atgactgctt attgttcttc tttttctgaa 28800
taaaatcaaa ttaaacaccg aaaatatgaa acatattcac taacctgaac agctttcagg 28860
tttgatttat tctgattttc cgccgctgat ctgctctgac ttttgaaacc gggacttgga 28920
gagttaccat tgcgtatgag agttcgaact ggacgccgat tcttctttct gaataaacga 28980
attatacaaa tttgtatttg aaaacggaca acatacactc cttcttccgc cgaattgctc 29040
atogattttc tcatttcttg tgttttttcc tggcgttcag gttcaaaagg tggagcaact 29100
ggtttggaac tatacgggaag aatgttcgag acttgaatct tttttggttg ctcaatattc 29160
tccattggaa tatgatcggg aagttcaaag tagctgttgg atcctggagc ttgatcaaat 29220
ccttcgagag ttaaaagttc acgaactgct tcaactcatt tgaccctttc ctcttcggca 29280
ccagcacaga ttctatactg aaattgcttg ttgtgttgtt ttactcaaaa gaatagtga 29340
caaaat tttc tcaccgtaat gaatctgaca atggctggtg ggacgttagc ttcaaatggc 29400
attcggatc cgttctgaac acgtggtaaa acctcagcaa ctttcattcc cggataaggt 29460
tcgattccat catggtacac ttcccaacac atgactccat aagcgaaaac atcagtcttt 29520
ggagtataga acccagttct tggaaacttct ggagccaacc atctaataagg aactctgaaa 29580
aatttgaaaa ggttgaatt tttgacgttc tctaactttt tgtgaggatt catccgatag 29640
ctatagcctt ctggtgacag tccaaagtcg gatattttta cttgtccatt cccgtagaga 29700
caatttctgg acgcaatatc gcgatgaatt atttgaagtg aatgaagata ttcaagacca 29760
agaccagctt gaagaacat cgtatgtttc ttggaaattg gcaatgaacc aatgttcttc 29820
tttagatatg aatccaaagc tccattgtca gcctaaaata atttacataa gacatttttt 29880
cttagtaaaa taaaattaat cagttaatta attaacatac caactccatt atgaccatca 29940
aaggttcctg tctgcagcc acaccataaa aagtgcgac attcggatgt ttgaactttc 30000

tcataaatct ggcttcgtgc atgattttctt tgatctgctc ttttgtcaaa gattccaact 30060
ttgccagctt gattgcagct tttttgacgg tatttctctat gcgaatttct cccaattgaa 30120
cctctccaaa tgctccttct cctaatttct tgattaatgt cacgtcagaa tgttgctttt 30180
cccacggttc acgaccaatt ggacggatga ttacagtttc tgggccctaa aagcaaacia 30240
atgaaaataa gtttactcac ttaatttgta agatcacccc agcaacagggt tctttagaac 30300
gatgatagta attgagaaga tctgcgatac tagaaaacca ttttttatca actgcaaact 30360
tgttattgtg ctctcgaatt acataatgac gaatctgaaa taatattctt aaaaattatg 30420
agcaatcggt ttacgtacgt cctcaattac tccaacatag acagagagaa caaatttctt 30480
tggtctctcc acttttggat cagtaaactg aactagaaaa tcgcctcggt gagtgcagaa 30540
ctgtttcata tcttcacgtg gcaataagcc atggtaccag ggttcttttg caagtacttg 30600
c 30601

<210> 34
<211> 8009
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<400> 34
ggatccttgg ccacgccatg ggcgatgaaa ttgaccgctg cgtaacgggt catgtcctgc 60
tctgcagga agaaggccgc gttcgattcc cgttccgcaa agatcgcgac aaggacattc 120
gccccgtca cctcggtccg gcccgagctt tgcacatgga tcgcggcgcg ctggatcacc 180
cgctggaagg cggcggtcgg cacggcttcc gagccttcca cttcggtgat cagcgtcgag 240
agatcatcgt cgatgaactc ggtcagggtg gtgcgcaact cgccaagatc gacgccgcag 300
gcgcgcatca cgcggctggc gtcgggctcg tcgatcagcg cgacgagaag atgttcgagc 360
gtcgccagtt catgtttgcg cgtgttgcc agcgccagtg cggcgtgaat tgcttgctcg 420
agcgtggtcg aaaacgaagg catgcggcgc tcttttctc gggctctccg atactggcct 480
catgtgatta agtttcggtg gatttcgccg cgcttcaagg cccggacgcg tgttttttcc 540
acctctcgcc gctctgttgc aaaactgacc agcgcgcgcg gctttcgcg gatccgcagg 600
cagcgcgca aagtgccttc agaaccggtc cttgcgcgc cgcgccgcgg tgaagacggc 660
gagcgcgcg gcatccccg gcaggccgag cgcggcgcg aacgcagcgt catcgcgcg 720
caaaaaggga ttcgttgccc gttcctcgcc caaagtcacc ggcaaactgg gttccccggc 780
cagccgcaag gccgtcacc ggtccatccg gtcgtgcagc cgaccgttcc ccggttccag 840
gctgagcgcg aaccggccgt tcgcggcggt gtattcatgc ccgaacaga cccgggtttc 900

gggcggcagc gcgccagac gggtcagcgt gtcgaacatc tgcgcggggg tcccctcgaa 960
gagacgccc cagccccagc tcatcaggct gtcgcggaa aagagcagcc ccgccccggg 1020
cagataccag gcgatatggc cgagcgtatg gccgtcggcc gcgatcacct gcgcggcctc 1080
catccccaga tgcagcacgt cgcgggggc caccggatga tcgagcggcg gcagccggtg 1140
ggcatcggcc gcgcccccg ccaccttggc cccggtcgcc tgcgccagcg cctcgacccc 1200
cgcatgtga tcggcgtggt gatgggtgat caggatgtgg tgcagctgcc agcgccggtc 1260
ggtcagcacc ttcagcaccg gggccgcctc ggggacatcg accaccacca cggtatcgg 1320
ggcgggtgctg tgccagagcc aggcgtaatt gtcggtcagg caggggatcg gggtcagttc 1380
gagggtcatg gccttttgcg catctttcgc taccctgacc cagcttcgcc caaggaaggc 1440
caacctgcaa tgcattctga cgtgctcgac ctgctgatt tctactaccg caccgaattg 1500
gggcgcacgg cgaaaaggc gatccgcgac aagggtgctg aactctggcc ggacaccag 1560
tcggcatgg cggggtgac ggtggcgggc tacggcttcg cgggtgccgt gttgcgccc 1620
tatctgggc gggcgcggcg ggtgatcggg ctgatgccg cgcagcaggg cgtgatgcc 1680
tgccccgcg gagagcccaa tgtctcgggt ctctgtgcc aaaccagctg gccgctggag 1740
accgggatga tcgaccggct ggtggtgctg cacgggcttg aagtctccga cgaccccgat 1800
gcgctgatgg aggaatgctg gcgcacgctg ggccccggcg ggcgggcgct gttcatcgtg 1860
ccgaaccggg tcgggctttg ggcgcgcgc gaaaccacgc ccttcggctt tggccgccc 1920
tatacgatgg gccagctga ggcgcaggca cgacgggtgg ggtttgcccc cgaacgtcag 1980
gcggcgcgc tgtacattcc gccctcgag cggcggttct ggctgcgtc ctccgagatg 2040
tggaacggc tgggcacaag ggcggcgggc tatctggcg cgggggtggt gatgcttgag 2100
gtgatcaagc aggtgcatte ggtgcgcgc tcggggcttg gcgcggcggt gcgcaagccg 2160
ctctcgatcc ttgaagggc gcccaagccg gtggtcgggc ggatgtgagc cggcgcggc 2220
cgcaagaatc gcccgcccg aaaagccgt ttccgcggca cttcgccctg cggcggggaa 2280
acgcagcggg gcgggcttcg accctttgcg ctaacactcc gtgccggtgc agaaaatgtg 2340
ccagcctgat gcgattcct gccccaaga tggttgcgag ggtcttgatg ctctgctaga 2400
cgcaaccccg aatgcggcgt gcgagatcat tttgggcgc gaggggggccc tctgaatcgg 2460
tgacggaacg attggttcg gtgtccgct gcggaggcaa aagcatcgga aggggtggacg 2520
tgtccgaacc agcttcgatt tccgcagcca ttgccggcg ttatgccacg gccatcttcg 2580
acctcgcga ggaggccaag ggcacgacg cgtctcggc cgacgtggac gcgctgacgg 2640
ccgccttggc cggttcggcc gagctgcgtg acctgatttc ctgcgggtc tacaccgcg 2700
aggagcaggg ggacgcgatc gccgcggtgg ctgcgaagat gggcctgctg gcgcgcttg 2760

ccaacggtct gaaactgatg gcgacgaagc gccgtctgtt cgcgctgccg cagctgtca 2820
agggcctggc cgccgcgatc gccgaagcca agggcgagat gaccgcggat gtcacctcgg 2880
ccaccgcgt gagcgcggcg caggccgaga agctggcggc gacgctggcg aaacagacgg 2940
gcaagaccgt caaactgaac gtcgccgtcg atgaaagcct catcgggtggc atgatcgtca 3000
agctgggttc gcgcatgatc gacaccacgg tcaaagccaa actcgcttcc cttcagaacg 3060
ccatgaaaga ggtcggataa atgggcatcc aagcagctga gatttctcgg atcctcaagg 3120
agcagatcaa gaacttcggg caggatgccc aggtcgccga agtgggcgcg gtgctctcgg 3180
tcggtgacgg gatcgcgcgc gtgcacgggc tcgacaacgt ccaggcgggc gagatggtcg 3240
aattccccgg cgcatccgc gggatggcg tgaacctga agtcgacaac gtcgggatcg 3300
tgatcttcgg gtcggaccgc gacatcaagg aaggcgacac cgtcaagcgc accaacgcca 3360
tcgtggacgt tccggcgggc gaaggcctgc tgggcccgt cgtggacggc cttggcaacc 3420
cgatogacgg caagggccc atcgtggcga aagagcgtcg catcgccgac gtcaaagccc 3480
cgggcatcat tccgcgaaa tcggtgatg agccgatggc gaccggcctc aagtcggtcg 3540
acgcgatgat cccgatcggc cgcggccagc gcgagctgat catcgcgac cgtcagaccg 3600
gcaagaccgc gatcgcgtc gacaccattc tgaaccagaa gtcgtacaac gacgccaacc 3660
cgggcaaaa gctgcactgc ttctatgtcg ccatcgggca gaagcgtcg accgtggcg 3720
agctggtgaa gaagctcgaa gaagccggcg cgatggaata caccaccgtc gtcgccgcga 3780
ccgcttcgga cccggcgcg atgcagttcc ttgcccccta ttcggcgacc gcgatggcg 3840
aatacttcg cgacaacggc atgcacgcgc tgatcatcta tgatgacctc tcgaagcaag 3900
ccgtggccta tcgtcagatg tcgtgctgc tgcgccgtcc gccggggcgt gaagcctatc 3960
cgggcgacgt gttctatctg cactcgcgc tgctggaacg ttcggcgaaa ctgaacgagg 4020
atttcggttc gggctcgtg accgcgtgc cggatcatga aaccagggc ggcgacgtgt 4080
cggccttcat cccgaccaac gtgatctga tcaccgacgg tcagatcttc ctggaaaccg 4140
aactgttcta ccagggcac cgcccggccg tgaacacggc tctctcgggtg tcgcgcgtcg 4200
gttcgtcggc ccagaccaac tcgatgaagt cggttgccg tccggtgaaa ctggagcttg 4260
cgcagtatcg cgaaatggc gcctttgcgc agttcggttc cgaccttgac gccgcgacgc 4320
aaaagctgct gaaccgcgt gccgtctga ccgagctgat gaaacagccg caatatcgc 4380
cgctgaccaa cgccgaaatc gtggcggtga tctttcggg caccaacggc ttcctcgatg 4440
ccgttcgggt gaaggaagtc ggccggttc agaaaggcct gctggcctat ctgcgctcga 4500
cccgaagga cgtgcttgag tggctacca aggaagaccc caagatcaag ggcgacggc 4560
agaagaagct caaagacgc atcgccgagt tcgccaagac cttcgcttga cggcctgaaa 4620

ggacagggag atgcccagcc ttaaggacct caagaaccgg atcgtgagtg tcaagaacac 4680
 tcgcaagatc acgaaagcga tgcagatggg cgcgggcgcg aacattcgcc gcgcccagga 4740
 aagcgccgaa gctgcccggc cctatgccga gcggtatgaac gccgtgatgt cgagccttgc 4800
 cgggtgcggtg ggctcgaccg acggtgcgcc gcgcctactt gcgggcacgg gctccgacaa 4860
 ggtccatctc ctcgatcatca tgacgggcca gcgcgggctt tgcgggcggt tcaacgcca 4920
 tatcgcaaaa ctcgcaagg cgaaggcgat ggaactgctg gccagggca agacggtgaa 4980
 gatcctcacc gtcggcaaga aaggctcgca cgcgctgcgt cgtgatctgg gccagtatta 5040
 catcgatcac atcgacctga gcgacgtgaa gaaactgagc taccgggtgg cgcagaagat 5100
 ttcgcaaaac atcatcgacc gcttcgaggc gggcgaatac gatgtggcga cgatcttctt 5160
 ctcggtcttc cagagcgtga tcagccaggt gccgaccgcc aagcaggtga tccggcgca 5220
 gttcgaaacc gatgcggcct cggcctcggc ggtttacgac tacgaaccgg gcgatcagga 5280
 aatcctgacc gcgctgctgc cgctgcggt ggcacggcg atctttgccc cgctgctgga 5340
 aaacaacgcg tccttcaacg gggcgagat gtcggccatg gacaacgcca cccgcaacgc 5400
 gggtgacatg atcgatcgct tgaccatcga gtataaccgc tcggtcagg ccgcatcac 5460
 caaagagctc atcgaaatca tctcgggcgc cgaggcgctc tgacggaacc ggagatagaa 5520
 gagaatggca agcaaaggca aagtgaccca ggtcatcgcc gccgtcgctg acgtgcagtt 5580
 cgaagacggc ctcccgcgca ttctgaacgc ccttgaaacc accaacaacg gcaagcgctt 5640
 cgttctcgaa gtggcgagc acctggcgca gaacaccgtc cgaccatcg cgatggacgc 5700
 gaccgagggg ctcgctgcgc gcgcggccgt gtccgacacc ggcgggccga tcaccgttcc 5760
 ggtgggcaac gccaccctgg gccgcatcct gaacgtcatc ggcgagccgg tggacgaacg 5820
 cggtgacgtg tcgaaagccg aagcccgggc gatccaccag cccgcgcccg atttcgcgcc 5880
 gcagtcgacg gaaagccaga tcctcgtcac cggcatcaag gtgatcgacc tgctcgcccc 5940
 ctattccaag ggcggcaaga tcggtctctt cggcgggccc ggtgtgggca agaccgttct 6000
 gatcatggaa ctgatcaaca acatcgcgaa agtgactcg ggcttctcgg tggtcgcggg 6060
 cgttggcgaa cggaccctg agggcaacga cctttaccac gagatgatcg aatcgggcgt 6120
 tatcaacctc gagaagctcg aagaatcgaa agtggcgctg gtctacggcc agatgaacga 6180
 acccccgggg gcccggtgcc gcgtggcgct gaccggcctg accctggcg aacagttccg 6240
 cgaccagtcg ggcaccgacg tgctgttctt cgtcgacaac atcttccgct tcaccagggc 6300
 cgttcggaa gtgtcgggc tccttgggcg tatccctcg gccgtgggct accagccgac 6360
 gctggccacc gacatgggag cgctgcaaga acgcatcacc tcgaccaaag ccggttcgat 6420
 cacctcggtt caggccatct acgttccggc cgacgacctt accgaccgg ccccgggcac 6480

gtcctttgcc cacctcgacg ccacgaccgt tctgtcgcgt gcgatctcgg aactcgggat 6540
ctacccggcc gtcgaccgcg tcgactccac ctgcgcgatc cttgaccgcg aagtcgtcgg 6600
cgaagagcac tatcaggtcg cccgtgacgt ccaagggatg ctgcaacgct acaagtcgct 6660
gcaggacatc atcgccatcc tcggcatgga cgaactgtcg gaagaagaca agctgacggt 6720
ggcccgcgcc cggaagatcc agcgcttcct gtcgcagccc ttcgacgtgg cgaaagtctt 6780
caccggctcg gacggcgtgc aggttccgct cgaagacacc atcaagtcgt tcaaggcgggt 6840
ggttgcgggc gaatacgacc acctgccgga agcggccttc tacatggctg gcggcatcga 6900
tgacgtgatc gcgaaagccc agcgcctcgc cgctgcggcg taagggggaa ccatggccga 6960
taccatgcag ttcgatctcg tgtcgccgga acggcggctt gcctccgttg ccgcgagcga 7020
ggtccgtctt cccggcgtgg aaggcgatct gacggcgatg ccggggccatg cgcccgtcat 7080
cctctcgctg cgtcccggca tcctgaccgt ggtcagcgcc gcgggcacgg ccgaatacgc 7140
cgtgaccggc ggcttcgccg aggtttcggg cgagaagggtg accgtttctg ccgagcgcg 7200
tctgaccggg gcggaactga ccgccgcggt tcgatccgag atgctggccg aggccaaaga 7260
agtcgcggac gccgcgcacg cgtcgggtggc cgatgccgcc gcgaagatgc tggccgacat 7320
ggaagcgctt ggctcgaca tcaatctctg acgggacatc ccgccggata tctcggggcc 7380
cggtcatcgc gccggggccc ttgctttttg cttttgtctt gccgcgccgc atattagcgt 7440
gaaggtgcag gcagccggag tgagcgacag gaacggatga agaagttttc ctgcaccgg 7500
atcggcgtgg ccaggggatc gctggtgctg ttttcggatt atctggacgg cggcgtgatg 7560
tggaaggcg agggcccgcg cgaattgcgc aggttggtg tggtcgacga agccttccgc 7620
gagatcccgg cgggtgcagg gtcgctgtcg atgtgggaca tcgaccagaa gcacaatccg 7680
cgcatggaca tttccgcoga catggtgacg gccgagggtc tcgtgatcgt ctttcgcacc 7740
tggggcgaca ccgcgctcgc ccgcgtccgc gcggactggc tggcgatcgg cggctgcgcc 7800
aatgacgacg actgggacgt ggctgatcc cggccggctt gactttccgc cccccgcgc 7860
cgatggtgcg cgcgactttc ccatccaacg agggccgccc gtgcaacaag atgcccccg 7920
ctggcagctc gtggtgatcc tgtgggggac gaaatatccg gtcgccgaac tcaacgccct 7980
gatcgagacc gtgtggcccc ggccctcgag 8009

<210> 35
<211> 9810
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<400> 35

gatatcgggc ttgtcatttt cgattgcgac ggggttcttg ttgattcgga agttctggcc 60
gtggccgtcc tcatgcaga actggaccgg gcggcgctgc gggtcgacga ggccttcgtg 120
catcggcatt ttctggggcc gagcttcccg gctgttcagg aggtcgtgca ggcgcagttc 180
ggcgtgaccc tgcccagac cttccaggtc gaggaacgtg cccggctgct gtcagccttc 240
gagaccggcc tgcgggcoat gctcggggcc gcggagaccg tccgcgcgt gtcgggtgcc 300
tactgcctcg ccacgtcgag cacgcgggcc cggctcacgc gctcgtgga gatcacgggc 360
cttgcgggcc tcttcgaggg acgttgcttc accgcgagcc aggtggcgcg cggaagccc 420
gcgcccgatc tgttctgct cgcgcgggcc gagatgggcg tcgcgcccga acgtgcctc 480
gtgatcgagg ataccgagcc cggcgtgcgc gcaggcctcg cgccgggat gcaggctctg 540
cgcttcaccg gcggtagcca ttctcggaac cgatccccg aggatgcgcc cgatgccctg 600
ccgcaccggc ggttcgacag cttcgaccgt ttctacgaga ccctgcccgg cctgcgccgg 660
gccaaagtgc agacctgac atgatcgacc ggcccagag cgagccgacg cccctcgacg 720
atgccgcgcg cgcgggctgg ctctattatg tcgcaggcct gactcaggat cagatcgcg 780
gggagctcgg cacctcgct cagcgggcgc agcggctggt gagccgggcc atctccgaac 840
ggctgatcca cgtccggctc gagcaccggg tctcgggctg cctgcatctg gaagccgcgc 900
tctccggcg cttcgggttg aagctggccc gcgtggcgcc gagtctcggg tccgaggtg 960
atcccctgcc ctccatcgcc cccaccgcgc ccgcgaggt ggagcgggtg ctgcgctcgg 1020
agcggccgat ggtggtggcc ttcggcaccg gccggtcgt ggcgcgccacc gtcgaggaga 1080
tgacctcgat ggtctgcgaa cagcacaaga tcgtgtcgt caacggaaat atttctcgg 1140
atggctcggc ctctactac gatgtgatct tccgcatcgc cgaccgtgtg cgtgcgccgc 1200
actatccgat gccgatgcc gtcatcgcg aggatgcggc ggagcgggag ctgtttcatg 1260
cgctaaagcc cgtgcagtcg gtgctgcggc ttgcgcgcaa tgccgatgtg accttcgtcg 1320
ggctgggaca gatgggcgag gacgcgccgc tcctgaagga cgggttcac acgcccagag 1380
agctgaccga gatgcaggat ctgggcgcgc tcggagaggt ggcgggatgg gtcttcgact 1440
cggagggctg ctacctgaa accagcatca atcagcgggt tcggggcgtc cgtgtcgaac 1500
tttccgagga tcggacggtg gtcgccatcg ccggtggcag gcgcaagctc gcggcgctgc 1560
acgcaggctt aaggggccgt cttttcaac gcctgatcac cgacaggttc acggcgccag 1620
cacttctgtc ctgaagccgc cgaaaggcgc ggcaaaaagt atttgacagg ctggcacc 1680
tcggtgagta attattcgcc gcacgaaata atgctcaccg tgcaggccag ggaggatact 1740
gatgaccgca agatttcgcg ccctgatggg cgcgtgcgcc gtggctgcgc tctcgtccgc 1800
cgccggcgcc gaaaccatca ccgtggcgac tgtcaacaac ggcgacatga tccgcatgca 1860

ggggctcatg tccgagttca acgcgcagca ccccgacatc accgtcgagt gggtgacgct 1920
cgaggaaaac gtgctgcgcc agaaggtcac gaccgacatc gccaccaagg gcgggcagtt 1980
cgacgtgctg accatcggca cctacgaggt tccgatctgg ggcaagcagg gctggctcgt 2040
gagcctgaac gacctgccgc cggagtatga tgccgacgac atcctgcccg cgatccgcaa 2100
cggcctgacc gtcgacggcg agctctatgc cgcgcccttc tacggcgaga gctcgatgat 2160
catgtatcgc aaggacctga tggagaaggc ggggctgacc atgcccgcg cccccacctg 2220
ggacttcgtg aaggaagcgg cgcagaagat gaccgacaag gatgccgagg tctacggcat 2280
ctgcctgcgc ggcaaggccg gctggggcga gaacatggcc ttctcagcg ccatggccaa 2340
cagctacggc gcgcgctggt tcgacgagaa ctggcagccg cagttcgacg gcgaggcctg 2400
gaaggccacg ctgaccgact atctcgacat gatgacgaac tacggcccgc ccggcgccctc 2460
gaaaaacggc ttcaacgaga acctcgcgct gttccagcag ggcaagtgcg gcatgtggat 2520
cgacgcgacg gtggccgcct ccttcgtgac caaccccgag gaatccacg tggcgacaa 2580
gggtgggcttc gcgctcgccc ccgataccgg caagggaag cgggccaaact ggctcggggc 2640
ctggaacctc gcgatcccgg cgggctcgca gaaggtcgat gccgccaagc agttcatcgc 2700
ctgggcgacc tcgaaggact atgccgagct ggtggcctcg aaggaaggct gggccaacgt 2760
gcctccgggg acgcggacgt cgctctacga gaaccggaa tatcagaagg tgccgttcgc 2820
gaagatgacg ctcgacagca tcaacgcggc tgacccgacc cacccgcgcg tcgatccggt 2880
gccttacgtc ggtgtgcagt tcgtggcaat ccccgagttc cagggcacgc gcaccgccgt 2940
gggccagcag ttctcggcag ccctcgcggg ctcgatgtcg gccgagcagg cgcttcaggc 3000
ggcccagcag ttacgacgc gcgaaatgac ccgcgcgggc tacatcaagt gagcccttcc 3060
gcgggcccgc cctgagcggc cggcccgcac cgcttgccgc ttccggccgt atccgccgga 3120
ggcctttccg ccccatcagc ccgaggcct ccatggcgac ccagcattca aagactgcgg 3180
cgcgtctgat gatttccccg gccgtgatcc tcctgttctt gtggatgac gtgccgctgt 3240
cgatgacgct ctacttcagc ttctcgcgt acaacctcct catgccgggg atggagagct 3300
tcaccggctg ggacaattac tattacttcc tgaccgatcc ggccttctcc gcggccctga 3360
ccaacacgat cctcctcgtg gtcggcgctc ttctcatcac cgtggtgggc ggggtcctgc 3420
tcgcgctcct gctcgaccag cccttctggg ggcagggcat cgtgcgcgtg ctggtgatcg 3480
ctccccttctt cgatcatgcc accgtctcgg cgctggtctg gaagaacatg ttcatgaacc 3540
ccgtgaacgg gatgttcgcc catatcgccc ggggctcgg ccttcgcgcg ttcgacttcc 3600
tgtcgaggc gccgctggcc tcgatcatcg gcatcgggc ctggcagtg ctgcccttcg 3660
ccacgctgat ccttctgacg gcgctccagt cgctcgaccg cgagcagatg gaggcggccg 3720

agatggacgg cgcctcggcg ctgcaccggt tcatccacat caccgtgccg cacctgacgc 3780
gtgccatcac cgtggtggtg ctgatccaga ccatotttct tctgggcgtc ttgcgcgaga 3840
tcctcgtcac gacgaacggt ggacccggca ccgcctcgac caacatcacc tacctcgtct 3900
atgcgcagtc gctcctgaat tacgacgtgg ggggcgggtc ggccggcggc atcgtcgccg 3960
tggtgctcgc caatatcgtg gcgatcttcc tgatgcgcat gatcggcaag aatctggacg 4020
cctgacatgt caccgccac ctcaaccgc cgcacgctga tcgtcacgct cgcgcctgg 4080
acgatagcct tcctcatctt cttcccgatc ctctggacgg tgctgatgag cttcaaactg 4140
gaaggagacg ccatcaaggc gcccttcgcc atgctcttct cggactggac cctgcaatcc 4200
tacgccgatg tgcaggaacg gtcgaactac gcccgccact tcatgaattc ggtggtgatc 4260
tcgctgggct cgaccctcgt ggcgctcgcc atcgcgatcc ccgcgcctg ggccatggcc 4320
ttcgtgccgg gccggcggac gaaggacgtg ctgatgtgga tgctgtcgac caagatgatg 4380
ccggcgggtg gcggtgctcat cccgctctat ctgatcttcc gcgacacggg ccttctcgac 4440
acgcggatcg gcctcgtgat cgtgctcacg ctcatcaacc tgccgatcgt ggtctggatg 4500
ctctacacct acttcaagga gatcccgggc gagatcctcg aggcggcgcg gatggacggg 4560
gcgacgctcg gctccgagat cctctatatc ctcacgccga tggccgtgcc ggccatcgcc 4620
tcgacgctgc ttctgaacgt gatcctcgcc tggaacgagg ccttctggac gctgcagctg 4680
accacctcgc gggcggcccc gctcacgcag ttcatcgca gctattccag ccccgagggc 4740
ctcttttaag ccaaactgtc ggcggcctcg accatggcca tcgcgccgat cctgatcctt 4800
ggctggttca gccagaaaca actcgtccgc ggcccgacct tcggcgcggt gaagtgagga 4860
ccacatgggc aagataacc tgcgcaacgt ccagaagcgg ttcggtgagg cggtcgtcat 4920
cccctcgtc gacctcgaca tcgaggatgg cgagttcgtc gtcttcgtcg gccctcggg 4980
ctgcggcaaa tccacgctcc tgcgcctgat cgcgggcctc gaggatgtgt cggacggcca 5040
gatcatgatc gacgggcgcg acgccaccga gatgccgcc gcgaagcgcg gcctcgccat 5100
ggtgtttcag agctacgcgc tctatccgca catgacggtg aagaagaaca tcgccttccc 5160
gctgcggatg gcgaagatgg agccacagga gatcgagcgg cgcgtgtcga acgcggccaa 5220
gatcctgaac ctcaccaact atctcgaccg ccgccccggc cagctctcgg gcgggcaacg 5280
gcagcgggtg gccatcgggc ggcgcacgtg gcgcgagccg gcggccttcc tgttcgacga 5340
gccgctctcg aacctcgatg cggcgctgcg ggtcaacatg cggctcgaga tcaccgagct 5400
gcaccagtcg ctcgagacca cgatgatcta tgtcaccac gatcaggtcg aggccatgac 5460
catggccgac aagatcgtgg tgctgaacgc gggccggatc gagcaggtgg gctcgcccct 5520
caccctctac cgcaatccgg cgaacctctt cgtggcgggc ttcacggca gcccgagat 5580

gaacctgatac gaggggcccc aggcgcgcaa gcacggcgcc accaccatcg ggatccgccc 5640
cgaacataac gacctgtcgc gcgaggcggg ggcgtgggag ggcgaggatcg gcgtctcggg 5700
acatctcggc tcggacacgt tcctgcatgt gcatgtcgcg gggatgcca cctcaccgt 5760
gcggacgggc ggagagtctg gcgtccatca cggcgaccgg gtctggctca cgccgcaggc 5820
cgacaagatc caccgcttcg gcgccgacgg aaaggcgctc tgacatgcgg ctcgacggca 5880
agaccgccct catcaccggc tcggcgcgcg gcataggccg cgccttcgcc gaggcctatg 5940
tgcgtaagg gcgcgcgtg gccatcgccg acatcaacct cgaggcagcc cgcgccaccg 6000
cggccgagat cggccccgcg gcctgcgcca tcgccctcga cgtgaccgat caggccagca 6060
tcgaccgctg cgtggccgag cttctcgacc gctggggcag catcgacatc ctctgaaca 6120
atgcggccct cttcgatctg gcgcccacgc tcgagatcac ccgcgagagc tacgaccggc 6180
tgttcgcgat caacgtctcg ggcacgctct tcatgatgca ggcggtggca cgggcgatga 6240
tcgcgggcgg ccggggcggc aagatcatca acatggcaag ccaggccggc cgcgcggcg 6300
aggcgctggt gggcgctctat tgcgcgacca aggcgcgcgt catctcgctc acccagagcg 6360
cggggctgaa cctcatccgc cacgggatca acgtcaatgc catcgccccg ggcgtggtgg 6420
acggcgagca ctgggacggg gtggatgcga agttcgccga ctacgagAAC ctgccccgcg 6480
gcgagaagaa gcgtcaggtc ggcgcgcgcg tgcccttcgg ccgcatgggc cgcgcgagg 6540
acctgaccgg catggcgatc ttctcgcca cggccgaggc cgactacatc gtggcccaga 6600
cctacaacgt ggacggcggc aactggatga gctgaggccc aaggcccggc cctcccccg 6660
tcgaacgcgc cccctatccg aggtaatccc atgaccgct ccgtoaccg tccctcctat 6720
gaccgcaagg cgctcactcc cggcatcgtc catatcgcg tcggcaactt ccaccggcg 6780
catcaggcg tctatctcga cgatctcttc gcgctggcg agggccacga ctgggccatc 6840
ctcggcgcg gcgtccgcc gaccgatgcg cggatgcgcg aggcctcggc cgcgcaggac 6900
aatctctcga cggatgatga gctcgatccg gcgggccacc gggcccgca ggtggggcg 6960
atggtgggct tcctgcgggt cgaggccgac aatgcggccc tgatcgaggc catgtcgat 7020
ccgcgcaccc gcatcgctc gctgaccgtg accgaggcg gctattatgt cgatgcctcg 7080
ggcgccctc atccgacgca tcccgatc gtggccgatg cggcccatcc tcgcgggcc 7140
gcgaccgct tcggcgcgat cctcgccgcc ctccgcgcc gccgcgacgc gggggttaca 7200
cccttcaccg tgatgtcctg cgacaacctc ccgggcaacg gccatgtcac ccgcaacgcc 7260
gtggtgggcc tggccgagct ctacgacgcc gagcttgcg gctgggtgaa ggcgcagggtg 7320
gccttcccga acggcatggt cgaccgatc acccccgcca ccggcccgca cgagcgcgaa 7380
ctggcgagg gcttcggcct cgccgatccg gtgcccgtca cctgcgagcc gttccggcag 7440

tgggtgatcg aggatcattt ccccgccgga cggcccgcg cgcagaaggt gggcgtgacc 7500
ttcaccccg atgtccatgc ctacgaggcg atgaagatcc gcatcctgaa cgggggcat 7560
gcggtgatcg cctatccgtc ggcgctcatg gacatccagc tcgtgcacgc ggccatggcc 7620
catccgctga tcgcggcctt cctgcacaag gtcgaggctg aggagatcct gccccatgtc 7680
ccgcccgtgc ccgacaccag catccccgac tatcttacc tgatcgagag ccgcttctcg 7740
aaccgccgaga tcgccgacac gacgcgcagg ctctgcctcg acggttcgaa ccggcagccg 7800
aagttcatcg tgccgtcgct gcgcgacaat ctggcgggcg gcacggtgcc gaaggggctg 7860
gtgctgctct cggcgctctg gtgccgtac tgcttcggca cgacggactc gggcgttggtg 7920
gtcgagccga acgatccgaa ctggacggcg ctgcaggacc gggcgcgcg ggcgaaggag 7980
acgcccggccg agtggtggc gatgaccgaa gtctacggcg atctggcgca gaacgatctt 8040
ctggcgggccg agttcgcggc agccctcgag gcggtctggc gcgacggggc cgaggcggtg 8100
ctgcggcgct tcctcgcggc ctgatccgca gggcccagcc gctcggagca ccgaagcggga 8160
gccctgccc cttgcggcg accgtgaggc gaaacgaccg ggccaccccg gggccaccgc 8220
ctcggttaaca ccatggtatc gcgcaagaat gccggcgctt ctgccgaacg gggccggctg 8280
ccgggcgagg cgcgggactt gtcaaggcg cggccctcg gtagagagg cgggcgtggc 8340
cccgttagca cagtggtagt gcagcgctt tgtaaagcga aggtcgctt ttc aaatcgg 8400
acacggggca cgcgatcct cctccgcatc ggcgctcgcc ccggtctgg actgcctctt 8460
cggaaggcac ctgccgctt gtgcgcgcg cctttctc gcttcccaag cgtctgtcac 8520
ggcttgcgga aagccgtgcg cctcggttct ggacagccgc cccttgcggt gtaatctgcc 8580
ctcagcgcg agccggcgga cagaagccg cccgccacgt ccacaaggga ggaatgcat 8640
ggatcgctgt tcattcatca ccaaggccgc cgtgggagg gcccgcgca gcgcctcgc 8700
cgcgccggcg cttgccagtc ccgcgccc aa ggtcacctg aggtcgctt cctccttccc 8760
gaaatcgctc gacacgatct tcggcgcgcg cgaagtgtg tcgaagatgc tctccgaggc 8820
cacgacggc aacttccaga tccaggtctt ctcgcgggc gagctggtgc cgggcctgca 8880
ggccgcccgc gccgtgaccg agggcaccgt cgaatgctgc cacacggctg gctactatta 8940
ctggggcaag gatcccatc tcgcgctggc cgcggccgtg cccttctcgc tgcggcgcg 9000
cgcatcaac gcctggcact accatggcg cgggatcgac ctctacaacg atttctcgc 9060
gcagcacaac atcgtggcct tccggggcg caacaccggc gtgcagatgg gcggctggtt 9120
ccggcgcgag atcaacaccg tggccgacat gcagggcctg aagatgcggg tcggcggtt 9180
tgcggggaag gtgatggagc gtctggcggt cgtgccgcag cagatcgcg gcggcgacat 9240
ctatccggcg ctggagaagg ggacgatcga cgcgaccgaa tgggtcggcc cctatgacga 9300

cgagaagctc ggctttcttca aggtggcgcc ctactactac tatcccggt ggtgggaagg 9360
cggcccgacc gtccatttca tgttcaacaa gagcgctac gaggggctga ccccggccta 9420
tcagtcgctg ctgcgacacg cctgccacgc ggccgatgcg aacatgctcc agctctacga 9480
ctggaagaac ccgacggcga tcaagtcgct ggtggcgag ggaaccagc tcaggccctt 9540
cagccccgag atcctgcagg cctgtttcga ggccgcgaac gaggtctatg ccgagatgga 9600
agcctcgaac cccgccttca agaagatctg ggactcgatc aaggccttcc gctccgagca 9660
ctacacctgg gcgcagatcg ccgaatacaa ctacgacacc ttcgatgatg tgcagcagaa 9720
cgccggcaag ctctgagccc gagcgccgcg cgaaagagga ccccgagcc gcgttccggg 9780
gtcttttcat gggcgacagg ggccggcgcg 9810

<210> 36

<211> 1886

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism:Unknown

<400> 36

tgagtgtcta ttttttttcg ggttttttta agtgtgaatc acatggtttag gagcagttgt 60
cttcaatgtg accaaccatc ccaaggctct aattcaacgt ttgggtgtgg gggcccgctg 120
gcagctgtgt gtgccactgg gctgttggtg ttggtgcttt actccccctc atcgaaaacg 180
gctaattggt cggcacaggg tatttccaca aaggcgctgt atccggcagt gcctgtgcct 240
tccactctgc tgcctggaag cgcgctgcc aaacaccagc tgcattgttg gagggacat 300
gcgatgtcgg aggccacaac aaacaattca ttcaaacagt cattatttgg gtacaatgcc 360
atctcctcca ttggcttca actggctggt gtggccgcca ctttctttgc atttgagct 420
ttgatggcag ctgtaacgca acgcaaggag atcgccgtct tctccgcctc gggtcaggct 480
gctgagccgg agggggcgga gccctgaag cggccttttc cgtctcctgc tgccaaacct 540
aagccgctct tctccacccc ggcaaattcc ttcagcaaca tcttccaggc gctccatcg 600
ctgcgcacgg actccacctt tggccgaggc ccgcgctcga ccagcttcac cgacatcagc 660
aactggccct ccaacaacgc actccgcaac cccagtcgg tgattgacat cgggggagga 720
gtogacttcc tgggggacag aagccctgga aaccgttca cgcggtgcg ggggtccccg 780
agctccaccc tcagcaacct cggcatgggc ctaggcctgg ggctgggcaa gggcaagggc 840
ttcggcaagg gcttcggcaa aggccggggg ttccccgtgg aggaggaggt ggaggaggag 900
caggaggtgc tgtcgtgggc cgaccgcccg cgggcgctgg cggaccccca cgccccgcg 960
atgaacgagg acatcaagta cccgcagctg cggctggtgc gggccgtgcc gggcgcccg 1020

gacgagaagc tcggtgtgat gtcgaggcag gaggcgctgg agctggcgga ggcggaagac 1080
atcgacctcg tcctcgtcag catcgacacc gaccccccg tggccaagct agtcaattac 1140
tcgaagttga agtacgagtc cgagaagaag aagaaggaca gccacaagaa ggggaaggtg 1200
aaggaggtga aggagctgaa ggtgtcccat aagatcggcc agcacgacta cgacgtccgc 1260
gtgaagcagg cccgaaagtt cctggagggc ggccaccgca tcaaggtgtc gatggagtgc 1320
aaggggcgcg agaaccagtt cgtggagatc ggccgcgcg tgatgaagcg cttccagaac 1380
gacctggcg acatgggcaa ggcgagcgc gtgccaaga agctcgccac ccggctgac 1440
ctgaacctgg ccccgcccg ggaggcgtg aaggtgattg cggagcggag ggcagagcgc 1500
gacaggaaag ccgcggtga ggaggaggg gagggcgacg acctcgactt cgtggacgag 1560
aacgaggacg aggatgtgga gggggagggc gaggaggaag aggccgagga gctggaggag 1620
gagacagcgg aggggacgga ggtgccaacc cgcagctgat cgccgatccg cgggggacag 1680
ccacctccc cccggcctcc ctgccgggg ccggcaccat ccgtcgttgc ggtgcggcgc 1740
tgccatcaac ggccgtcctt gagcttaatg ctcccgccct ccgttgcccc gcggcggtcg 1800
ccaggttget ggctggctg cccgcagctc ctccctccc cgactgacac agtgtggatg 1860
accgtgatgt gcgccttttc gccttc 1886

<210> 37
<211> 3015
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<400> 37
ccgctcatct ccaggcctcc ctgagtgcgt acccgagagc ggcaagtaga gaaaggaaca 60
cagatacagc accatggcct ctaggctcgt ccgtgtgctg gcggccgcca tgctggttgc 120
agcggccgtg tcggtcgacg cgcgcttcgt ggtgcgcatg gtgcaggtgg tacaccgcca 180
cgggtgcgcg agcgactca tcgacgaaa cacgacggag atttgtggca ccctgtaccc 240
gtgcggtgag ctgaccggcg aggggtgtga gatggtccgt gctatcggcg agtttgcccg 300
cagccgtac aacaacctct cattggtgga gagccctctc ttcccgtcga cgcggtacaa 360
ctcctctgtc gtgcacaca gctccaccca caccagcgc accatccaga gcgcgaccgc 420
ctttctgcgc ggctcttcc aggacgacta cttctaccg gtggtgtact cgaccaacag 480
aacgaccgaa acgtgctca gactgacgc ggtgccgtcc gtggtgggccc gtagctggct 540
cgacaacccg gcgctgcacg ccgcccctcaa cccggtgac gatgagcacc tcagctggga 600
cgccatccag agcgtgcca aggacgcatg ggtcgagggc ctgtgcgcg actacaacgc 660

ccgcaccaac	tgcgtcctcg	acatgtacga	cgtggccgcc	gccttcgagg	ccgccggggcg	720
tcttgacaat	gccaccaatc	tcaaggcggt	gtatcccggc	cttcaggagg	tgaacgccgc	780
ctggttcaag	tatgtcttca	gctggaacca	cacgagcaag	ctcgatctca	cgcagggctc	840
cgcctcgcag	aaccttgccg	agacggtgct	ggccaacatc	aacgcccacc	gcctctctcc	900
gtcgtacaac	atgttccagt	acagcgctca	cgacacaacg	gtgactccct	tggtgtcac	960
gttcggtgac	cagggcgaga	cgacgatgcg	tccgcccttc	gcggttacca	tcttcgtgga	1020
gctgctccag	gacaccgcag	atgccagtgg	ctggtacgtg	cgcctcatcc	gcggcaaccc	1080
tgtgaaggca	gccgacggca	cctatgtctt	ccaggagtct	ggtatcaagg	catactgcat	1140
cgatgaagcc	gggaacaagt	acctcgcaca	caccggcatc	tgcccgtgta	atagcttccg	1200
ccgcatggtc	gactactcgc	gccccgcogt	ggctgacggg	cactgcgcca	tgacacagac	1260
tcagtacagc	aacatggatt	gcccgcgcac	tatcgcggac	aacaagccgg	tgccgtcgcg	1320
ctgctggctc	taccgccacg	tttgccctag	caaggcatgc	ccggacagct	acattctctc	1380
cgcggtcgac	caccagtgtc	accccggggc	cgacgttacg	aaccccacca	gcagcagcag	1440
cagcgagggg	accaccacca	gcagcagcga	gggtaccgcc	accagcagca	gcgacgttac	1500
caccaccagc	agcagcgagg	gtaccgccac	cagcagcagc	gacgctacca	ccagcagcag	1560
cgaggggtacc	gccaccagca	gcagcgacgc	taccaccagc	agcagcagcg	acgctaccac	1620
caccagcagc	agcgagggta	ccaccagcag	cagcagcgac	gctaccacca	gcagcagcga	1680
cgctaccacc	accagtagca	gcgaggggtac	cgccaccagc	agcagcgacg	ctaccaccac	1740
cagcagcgag	ggtaccgccca	ccagcagcag	cgacgttacc	accaccagca	gcgaggggtac	1800
cgccaccagc	agcagcgacg	ctaccaccac	cagcagcagc	gaggggtacca	ccagcagcag	1860
cagcgacgct	accaccagca	gcagcgaggg	taccgccacc	accagcagcg	acgctaccac	1920
cagcagcagc	agcgagggta	ccaccagcag	cagcagcgac	gctaccacca	gcagcagcga	1980
cgttaccacc	accagcagca	gcagcgaggg	taccgccacc	agcagcagcg	acgctaccac	2040
cagcagcagc	gaggggtaccg	ccaccaccag	cagcgacgct	accaccagca	gcagcagcga	2100
gggtaccacc	agcagcagca	gcgacgctac	caccagcagc	agcgagggta	ccgccaccac	2160
cagcagcgac	gctaccacca	gcagcagcag	cgaggggtacc	accagcagca	gaagtgcgc	2220
taccaccagc	agcagcgagg	gtaccgccac	caccagcagc	gacgctacca	ccagcagcag	2280
cagcgagggg	accaccagca	gcagcagcga	cgctaccacc	agcagcagcg	aggggtaccgc	2340
caccaccagc	agcgacgcta	ccaccagcag	cagcagcgag	ggtaccacca	gcagcagcag	2400
cgacgctacc	accaccagca	gcgacgttac	caccaccagc	agcagcagcg	aggggtaccgc	2460
caccagcagc	agcgacgcta	ccaccaccag	cagcgacgtt	accaccacca	gcagcagcag	2520

cgaggggtacc accaccagca gcagcagcag cagcagcaaa agcacaagtt catcggatgt 2580
cccttccttc aaaaagcccg cgaactggag cccgcgcgtt ctctcgccgg aaagggggccg 2640
ccacattgcc ggggacatca tccgccgcgt gacgaacggt gttacgatcg gtgcgggtgt 2700
ccgaaagcac gatgagtaca gccggcacccg ccaacagtag cacaacggca tgtaactctt 2760
ttgtgcatgt ttgaatggag aggaggcttc tgtacagcgt acattgtttc gagaaggtat 2820
cacaaccgct cgtttcaccc ccgtcatctt ttcatcttga tctccgtcgt ctcatactgc 2880
ctttgtgggc tctctctggg tgtgggcgct tgtgcgtgtg tcgctgtaaa gtcgttgacg 2940
ccatcgctct tacctgtggg ctattttttt aattatgggt tattattact tccctctctg 3000
cgcgccctc tgcag 3015

<210> 38

<211> 38186

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism:Unknown

<400> 38

gaccccttcc gctcttccg gcgtctggg ctccaggcgc ccttggett g agattgac 60
tccctgatct ctgcctccat ctgctcacag ccttctcccc tgttgtctc tgtctcttct 120
tgtaaattca tccgtcgttg gatcagggcc caccgggttc ctggtggcct cgccttaact 180
gggccatgtc tgcagagacc ctatttccac ataaggtcct attcacagga accgggggtc 240
aggatgtcag cctgtctttc tgggagatgt agttcaaccc acaacacaca tcaaacagtt 300
attgagcgcc gactgcgtgc cctgccgtgt gcttgaagg cccaccctca ggaagcgggg 360
cctagggatg gcggccgtga tcacgcaggc agcagagagc agctctggga agcggggagg 420
gacgaggacg gggaggcgac atcagcaagg ccgtgtgtga gccaggcagg gtgtccccgg 480
tgtagcacct ggctcgggca gaggccccga ggaggggctg gaggagctgg gcgaggaggc 540
gggcaggacg ggcctgacac tagggacctc gggccccggg aatgcctctg ggggggcgtg 600
tacaccggtt gctcccagga ggcacacact gcggttcgct tcgccaagaa tgtttaattg 660
catttgatga ctacggtttc cattcattca tttgtagaga tataaactc agaccacaaa 720
atgcataaaa tgcggtggct tttagtatta acagagtgtc gcacccgata ccacagcctc 780
actccagaac attctcatgg gcccaaaagg agacctggg tgtagtcac cagctcactc 840
cccgccccca gcccctggca acccacgcta cttagtcatt atttaggtgt ttaggagttg 900
caaagtcaaa tctttaaac cacaatggc caggcgtggt ggctcacgcc tgtaatccca 960
gcactttcag aggcagagac gggcagatca cctgaggta ggagttcgag accagcctgg 1020

ccaacatggt gaagccccgt ctccactaaa aatacaaaat tagccgggcg tgggtggtggg 1080
cgcctgtaat ccagctact ctggaggctg agacaggaga atcgcttgaa ccagggaggc 1140
ggcggttgca gtgagccgag attgtgccac tgcactccag cctggacaac agagcgagac 1200
tccgtctcaa aaaaaaaaaa agtaccaaaa agtgccccag gtcataaggg cacagctcga 1260
tagctggtcc ctaaaggga cgtggtgtaa ccaccacaca gaacgaagct ggaacgttcc 1320
tgccgtcctt agaagctgcc tttgctaagg ggaattgccc tgacttccca caccattgat 1380
tcatctccag acccttggtt ttcattgtga tttttcaaaa atcacctgat agtctgaccg 1440
aatgtagctt tccactggtg tgtgtgtgtg tgtgtgtgtg tgtgtgtgtg tgagagagag 1500
atggagtctc gctctgtcac ccgggctcca gtgcagttgt gtgatcttgg ttcactgtaa 1560
cctcctcctc ccggggtcaa gagactcgtg cctcagcctc ccgagtagct gggattacag 1620
gcacccgccca ccacaccag ctaatttttt gtatttttag tagagatggg gtttcacat 1680
gttggccagg ctggtctcga actcctgaca tcaggcgatc caccacctt ggcctccag 1740
agtgtcggga ttacagggtg gagccaccac gcccggcctt atttttcccc cattttcttt 1800
tttttttttt ttgagtcagg gtcttgttct gcgctcaggc tggagggcag tgggtgtggg 1860
atcaggctc actgcagcct cgacttctc caccaccag cctggctgtt tttttttttt 1920
ccggtagaga ccgggggtctt accgtgttg ccaggctggt ctagaactcc tgggctcaag 1980
cgatcctccc gcctcggcct ccgcaaatgc tgagatcaca cgctgagcc ccgcacccg 2040
gcctcctttc caccgtctt gtctacagcc gccctcctg gtccgattgt attggcagat 2100
gtcgccaata ccgtgtcaaa ccgcaaggg gcaactgagc ttttttcttt ctcccgtcct 2160
tggcggcagc agctcggttc ccgctacggg gctgagcccg tctctcagac gaggaaactg 2220
gggtccgaga ggtgagccg tcccagaggc agggcgaggg ggaagcggga gtgggggtccg 2280
cagcggaccc agccctgcct cccccctgca ggagatcgtc aacttcaact gccggaagct 2340
ggtggcctcc atgccgtgt tcgccaacgc cgacccaac ttcgtcacgg ccatgctgac 2400
caagctcaag ttcgaggtct tccagccggg tgactacatc atccgcgaag gcaccatcgg 2460
gaagaagatg tacttcatcc agcacggcgt ggtcagcgtg ctactaagg gcaacaagga 2520
gatgaagctg tccgatggct cctacttcgg ggggtgagctt gaggggggcg cgcctggagg 2580
gggagggggc acgcgacccc ccgggtgtgc agagccaggg ggccggggcc ggggcccggg 2640
ccgggggatg ggatggggat ggggatgggg ccgggggatg ggatggggat ggggatgggg 2700
ccgggggatg ggatggggat ggggcccggg atgggggatg ggccggggat ggggcccggg 2760
atggggccgg ggatggggcc ggggcccggc ccaggagag cctgggtggg aagcgcccac 2820
gctggccaag gtgcagaggc cgggcccgtg gcctgggccc ggagggccgc ggcgcccgc 2880

tgtccagca accccccct gcgcgccag tgcagagatc tgctgtctca cccggggccg 2940
ccgcacggcg agcgtgcggg ctgacaccta ctgccgcctc tattcgctga gcgtggacaa 3000
cttcaacgag gtgctggagg agtaccocat gatgcggcgc gccttcgaga cgggtggccat 3060
cgaccgcctg gaccgcatcg gtgagcgggc cgggggcgtg gccggggcgg gtgccctggc 3120
gggggagggg cgtggccaag gcatcaggag agtggcttgg acagtggcag ggggaagggc 3180
gtggctgtgg catcaggggc acggttgggg cagagacgtg gccaaggcat caggagtgtg 3240
gccatggcag caggggcgtg gctggggcag gggcagcggc tggccgctcc taggaccct 3300
ttgggtctag aggctgattt tctgacctat tgtctactt cagccagagg cagcctgttt 3360
cccaagggag ggaatgcaca ggggtgttgc ggttgtgccg aatgctcggg gagcacctgc 3420
tgtgtgctgg ggggtgcaggg gacagaccg gggggccact cagactccca gggaggctta 3480
tggaactggg atgaaatcac acacgactgg gctgtgtgcc agcagggcag gtggggccgg 3540
tgggcttccc tgagttggga atgcagagtg gagaccaggg taagggatgc catgtggaaa 3600
cggggaggaa gatgtgttcg tggagtggac acagcacatc ccaaggccct gaggtggaaa 3660
agaggcctag agtccagaga gccagggagg cctggaggag gttggggaag aaggggaggc 3720
cagacacaca gggcccagtg ggcggcaggg agagttaga ctaaatacagg agcatcaggg 3780
agccatggag ggttctaggt gggcgaggga cctggtcaga ttgtatccgc caaggcgggc 3840
cgtgtccagg agggagacgg tgacctggcc tctcaggggg gcagtctctg gggcagggag 3900
cggcagagcc ctgatgactg gatgtaggcg ccagagagat ggcggtcat gctgctgttc 3960
gtgggaatgg gaatgaagac catggctgaa acgcaggaca ggtgcgacgg agtgggtgtca 4020
gggagctccc tgggtgtacag taggaagctc tccacaactt gctctataca gtgagtatgc 4080
aaccggttcc tgagtatcag gtgcttaggt tataacttct gtatacagca ggtgtcagc 4140
acaggctgtg tacaggcagg tgttttcggg atgcctgtgg cactgtggag gcagtcatta 4200
cataatcagc gtatacaggg ggtacacatg catacttggg gcacagtgat acctgtcca 4260
tgtacacagc aggcattaaa tacctgttta ctgccaggcg cgggtggctca cgctgtagt 4320
cccagcactt tcggaggcca aggtgggtgg atcacagggt caggagattg agaccatcct 4380
ggctaacatg gtgaaacccc gtctctacta aaaaaaaaaat aaaaaaaatt agccgggtgt 4440
ggtggcgggc gcctgtagt cagctactc gggaggatga ggcaggagaa tgggtgtgaac 4500
ccgggagggtg gaccttgcat tgggcccaga tcgcgcact gactccagc cggggcgaca 4560
gagcaagact ccgtctcaga aacaaagcaa aacaaaagcc ctgctttctg tatgcagggtg 4620
cttcatgcat gctggctgtg catagcagggt gctcagcctg tatatggcag gtactcaata 4680
tccatactat aggccagaga tgctacatat gtgcttattg tatacagtag gtggtaaatg 4740

catgcttgct ctacacggca agcactgtgt ggcacccgc ggtgcagagt aggtgctcgg 4800
tgcccgtgt acgcagcagg cgctccctgt gcacacgcta acgccccctc tcccgaggc 4860
aagaagaatt ccctcctcct gcacaagggtg cagcatgacc tcaactcggg cgtattcaac 4920
aaccaggaga acgcatcat ccaggagatc gtcaagtaog accgcgagat ggtgcagcag 4980
gccgagctgg gtcagcgcgt gggcctcttc ccgcccgcgc cgcgcgcgc gcaggtcacc 5040
tcggccatcg ccacgctgca gcaggcggcg gccatgagct tctgcccgca ggtggcgcgg 5100
ccgctcgtgg ggccgctggc gctcggctcg ccgcgcctcg tgcgcgcgc gcccccgggg 5160
ccgcacctg ccgcccctc acccggggcc ccgcccccg ccagcccccc gggcgcgcgc 5220
gccagcccc gggcaccgcg gacctcgccc tacggcggcc tgcccgccgc ccccttgct 5280
gggcccgcgc tgcccgcgcg ccgcctgagc cgcgcgtcgc gccactgtc cgcctcgag 5340
ccctcgtgc ctcacggcg ccccgcccc gcggcctcca cagcccggc cagcagctcc 5400
acacgcgct tggggccac gcccgctgcc cgggcgcgc cgcgcagcc ggaccgcagg 5460
gactcggcct caccggcg cgcggcggc ctggaccccc aggactccgc gcgctcgcgc 5520
ctctcgtcca acttgtagc ctcgccgacc gcccgcggg ccagggcggg ccgggggcgg 5580
ggccgtcatc cagaccaaag ccatgccatt gcgctgcccc ggccgccagt ccgccagaa 5640
gccatagacg agacgtaggt agccgtagtt ggacggacgg gcagggccgg cggggcagcc 5700
ccctccgcgc ccccgccgt cccctcctat cgcgcgcgc ccacccccat cgcctcgcc 5760
cccgccggcg gcctcgcgtg cgaggggggt ccttcacct cggcgctca gttccccag 5820
ctgtaagaca gggacggggc ggcccagtg ctgagaggag ccggctgtgg agccccgcc 5880
gccccacc ctctaggtg ccccgctcg aggagatcg ttttctaagt gcaatacttg 5940
gcccgcgcgc tcccgctgc cccatcgcg ctcacgcaat aaccggccc gccccgtcc 6000
gcgcgcgtcc cccggtgacc tcggggagca gcacccgcgc tccctccagc actggcaccg 6060
agaggcaggc ctggtcgcgc agggcgcggg ggggaggctg ggtcccgc gccgtgatga 6120
atgtactgac gagccgaggc agcagtgccc ccacgtggc cccacgcgc ccattaaccc 6180
ccacaccccc attccgcgca ataaacgaca gcattggcg caagcctggc cgcgtgtgat 6240
tgcccgagac ccgcagggcg tgcacccttc ctgaagacag tggctcctgg ggtggcaaa 6300
agagctttat ttacacactg acaaggctca cggggtgtca gctgaagaag taggtggaac 6360
gcttcacctg ctccaggtcg aaggcccctg cggaggaagc agagcggacg gcgtgggtgg 6420
cgggaaagcc ccgcctggc ccgcagttcg agccacctt gcgaggctgc ccacccgcct 6480
acctggcttg ggcaccgcct gcagtgtct cttcagctgg ctggcctcca agatcttctg 6540
gggcctgggg ttggaagcag ggtgggggtga ggctgaggcc aggttttggg gtgggggggg 6600

aatccaggta gttgggggtca gggagcgcct tactcagagc agaaccgctt gaccaggaat 6660
ctggacaggt cctgcaggat gggctcgtg tgcaagcgga caaactgctc ccggcacacc 6720
tgggcaggag tcagaggatc cccaggggtg atcaggcagg ctctgggcac caccctacc 6780
caacgccccca gtgtgggggc cccacccatg ggtggactga ggctcagact acgggggcac 6840
ctggttcatg acggagacat cagctgctg agtccagtaa cagtcgtgca cagagacgaa 6900
ggtcaggccc ttctgtggc agagcggagg actcctgaag ggaggggagc tcacagggcc 6960
accagtgac cagcatcctg gccctgcgt cagccccctc cacttgaggt ccagggaagc 7020
ccacctcct gcaggcctc cccacccct cgcggcgccc ctcccaaac atcctgggtt 7080
aggtatcagt acagggggag gaaatgttc cagaagcctc ctgcggcac ccctgccgc 7140
ccccacgtg ctgtgggagc ctacgtccg agggcggcta cgagggtccc tcctgccagg 7200
gccaccacc cgcctcctga gcattccag ctcccggtg cggtagattc tgctggaacg 7260
acctccagt gctccagatc taaccacaca tcgcggtgcc aagaaatgcc cagcaggaag 7320
gggcagcgcc catgctcggc tctccctgtc gggccacagg aggggagctg ccaggaccac 7380
ctacattcgg ggcacacagc ctacgggct ctacacaggc cccacagaca cagcagatcc 7440
actctgcca gtccctgcc ccagctagac ccagccttg cagctgtgcc ctgctagcca 7500
gaagacgccc ctgggaggcg agcggcacc acgcgctcc gagacgcca cctgtagcag 7560
tgcaggcggt tgagcatcat gtgggaggag tccagcgagt ggatgaagtt gggcggaag 7620
ccgttcttct gcttacgtgt gttgggttt ctgaggacgg aacagggtgc ggtggggcg 7680
gccagggac acccctaact ggccgctgtc tccaccgtg ctgctctcca gaccccggc 7740
caggccccag cccgggcccc cactcaccg gctgatgtct ccgttgtggg ttaggtgat 7800
gctctgaatt ccacctcta ttgtctaaa aggggaagg gccggtgagt cccaccgag 7860
gccagcacg gtggtgttac attgaggtg tggtacactg gggtagtggc acgctaggat 7920
ggtggcacac tggcgcgga tgggtggca cactggggcg gtggtacact ggggtggtg 7980
tacgctggg cactggtaca ctgggacgt gttacactg gatggtggca cactggggag 8040
ggatggggtg gtacactgac cttgacctg gagtccaggc gatagggtg gatgacggg 8100
acgcccagg gtgtgacca ctccaccaca gagcccatgt gggagatgag gcgggcactc 8160
tcggtcagcc agtctgtgg gacacaggcc gtctcaggc agggggctca ggccgggat 8220
cccgccact tgcttagga gtccgtggc agcggggaca ggacaggacg tacctggatg 8280
gcccgggtcc ccgagaacat ctctgtaga ctctgaaga cctggcgtag gagatagtga 8340
gaggcctccc acacgaactc ctgcagagg cgggcagcag gtgcaggctc tcaggggctg 8400
gcccgttac gccctactc cccctatttc agagccactg agggccaagg cctagggcct 8460

agcagggggg caggggaatg gggcctggcg cccacgcagt cagcaagaaa cgcccaagcc 8520
ctaacaggca gccagtggtc tgggggagca gccagggctc ctgctgggag gctgggtcgg 8580
gggcacaccc gtctgagttt taaatggcag tgaaccaac gtgttcgcag cgcgacatgc 8640
ctggcgcacc tggggaaagt cgctcagctc ccggaggcgc ttctcaatct gcaggcggcc 8700
gccatagcgc gtgaccccg acaccaccgt catcacctc tgcttcacca ccttgcgggt 8760
gatgaaacct tccagcaact gtgccaccg catgccccgc tgggcgtcct gcctacggaa 8820
cacctccacc tgcacggcgg gtgggcccgg ggcgcgggtc agccccgcta gcagcccagg 8880
ggccaccaag caccatgaa gccccgccc cagccccacc acatcctcag gacaggccaa 8940
ggtgagggca cctggggccg agactcagg ctcacattgc cccacgccg agatgcccc 9000
gggcagcagg gcacacccta cctgcgcggc cagcccgctg tacacgtcct gcggcacatc 9060
cgagggctcc aggttgacgg agggcgcc cagcgtgtcg cggcccagag cagcataatg 9120
ctgcaggccg ttgcaagagc cgtcctgagg aagggcgcc aaacgggaga tggaagctag 9180
agaggcagag acgtgtggga ccccaaacca cccccagggt cgagccgttc ctagggccgt 9240
gcacccccca gccaagtga ccggagcccc cgcacgtcc cgggagagac caggagccat 9300
ggctcccga cactctagga ccacctccag agaataccac gagcgaagg gaaatctcac 9360
accctcaagt cgagccccag gccagtga cactgcacgg cctcgggggc cagaccagc 9420
tggctcacct gatggacggg gagtgagg acataggcgg cagggtcgga ggcgcgcaca 9480
gcgttcgcca cctccataca gcaggccagc gtctgccagg gtctcctcgc gccatccac 9540
cactttcggc cctgcgggga cagcggatgg ggggcagtga ggcccgggc cgatccctga 9600
gcccgtggg aggtgtgtt gcggggagg gggaaatgg gaggagacgc acaccgtga 9660
tagtgaacac gggacgcatg tgggcgagag acggggcggt ggctggatga gttctccata 9720
gccacggatg gaggatggga gctgcgggtg gaccgggctg aaacaagcgt gtccggagct 9780
gccgggggag gagggtggac agaggacctg ggggcgccg gggaggaagc agctcggcgg 9840
atgcagggga ggggggaacg tggggaacgc gggggccctg gggcagggga gaaggagaa 9900
gcaggacggg cagggggcgc gggggaggag agcgggcggg ggacgtggg gcgccagggg 9960
agggggaggg gaggaggaag acgggcagg ggcgccagg gagggggagg ggaggaggaa 10020
gacgggcagg gggcgcggg gcgccgggg agggcgcggg ggcgccggg gagggcgcg 10080
gggtgccggg agggcgggga atgcgggggc cccgccccta ccgtcaagg ttggtccgcg 10140
gagtccagga tgtcatccat cacctcctcc gcaaaggcca ggcgttccg cagcggctcc 10200
cgcttctca accccgtgag attgaccagg tggatcttga gccaatccag gccgtgcggg 10260
ccgagcgggc ggccctgggc gaactccagc agggcccgc ccacgtcgt gccaggtgg 10320

ttgaagtgcg gcgggcaggg gtaggtgcgg ccgcggaagt ccatgttgtg cggcagccag 10380
aagacgcggt cccgcaggtg ctgcgccagc gagaggcggc acagcgcctc cgcccgcagg 10440
ctgtgcatct cccgggccac cttctggcag tgcgccagct cacggcgagc ctccggccttg 10500
cgggcggggc cggcgctgtg cggcaggtgg gcctcggggc gctggggcgc ctccggagggc 10560
ggggccggca cgcctagctg ggggcagccc ttggcctgga agagctgcag caccaggtcc 10620
agcacgcgcc cggtgacgcg ccaggcgagc ttgccagtt gggtagagggc gtccagtgcg 10680
ccatgcagcg cggtagggcg gcaggtttcc agcagctcct ggtgctgcgt ggcgccttcc 10740
accgtgcgca tcagcttggc ggggctgagc aggaagcac cagagtgcgg cgatgtccag 10800
ggcagcgggg ggcaaagcat gggtagatcc accgcctcga aggtcagcgt gggctccgcg 10860
gccttctcca gcagctgcac gtaggccggg tgcggcttca ggatgccgat ctgggggtgcg 10920
acaggcagac gggtagggc cccggtgctg gggctttcct gttcccaccc cttaaacttg 10980
ggtagagagg gccggctccc cggccaacaa gaaaccagtg tggcctccca cgaacagaag 11040
ccacctccag aaacggccgg acacctgcat ggacacccat ggtgtgtccc gagtcctggg 11100
aggtagctac ggctgcgctg agatcaaggc tccgccccaa ggcgccaacc ccatggggtc 11160
cctggtcctc ccagcgggat gccccccagc tcaggagggc actgcctggc acctgctgga 11220
cggtgcggaa ggaatacacg tggtagagca cggggacaag ccgagaggaa cgatgcggct 11280
tgtccaggct gcatggcatc tgcgtagcct gcaccagcat ctccgccagc agcttgccca 11340
gctccatctg cactggcagg gccaggggct gctcccgagc ggctcgggc gccccagct 11400
cctcccagta ctgccgcggc aggcaggggc cgggcacctg taggacaggg cggtagggc 11460
gctgggcacc gggggccctg agctagatgc cccaccgccc gtgcctgacg cccggtgggg 11520
catctgtcag cccaagcata cagatgaaca gactgaagct tgggtgcaaa cccggtgct 11580
ccagggaggg agagcgccca cccaccactg gccccagcca ggaggagagg gggtagcagc 11640
ctcacctcgg cgtcggaggc cagcaagcag aggtacttcc ttagtggtt ctgcagcgcc 11700
tgcacctggc cactgacctg ctgcctctgc accacgtgcc ggctgaaagt gcgcgcactc 11760
agctcccggg ccagggtggc gaaggactca ccttgggcgg gcagcgctg caggacctgc 11820
ggaaggcagc cgtgagtgc tggccgcccc gccgggggac ccggccgcgc ggaggagac 11880
gcacctgcag gagcatccgc accacctcgc gctcgtccag caggcacagg aaggggtaaa 11940
gtgagaaccg gccctcgtac acctcgcgt ctaggcggtt cttggtctcc cgcagcgccc 12000
ggcacagtgc tttctcccat tggccccga gggctctcag ggtcttccgc tgcgggggat 12060
gaacgggccc ggtgagcccc gtggcagctg gtgggacca ggctcacagg acgggggtca 12120
ccgcagctcc ctgcagagac ctcatggccc tcaaggcccc tgctgtgtgt tccgggtagc 12180

tcctcaccce ggccctgccct ctgccggctt cagcgtgcct gacgcagcca agagcaaaaag 12240
cccagctgca gtgtgcgag aagcacaggc caagacccaa cctcgggacc ccacaagttt 12300
tccctgagcg gcagccaggc tgagttccta ggccctgcat gaccagacca gggcatgagc 12360
aattcaaccg catacacgga gctcagcccc tgcggcgagc acgcgacccc ggctcagccc 12420
ctgcggcgga cacgggaccc cggctcagcc cgtgcggtgg acacgcgacc ccggctcagc 12480
ccctgcggcg gacacgggac cccggctcag cccctaccgc gtgcttgacc tccttgcttg 12540
gcaacgtggg cttctccacg gacaccacgc acaccctgct ggccagctcc atgtggagct 12600
gcttctcaaa gaggcactgc agggcttca agggcaggtg cagcttcggg taggacacac 12660
gcccacctg cagggatggg ggtagtgagg ttgggggctt gccagagggc gacctgccct 12720
cccaggaccc cgagacagca tgggtgcacg cgtttctgcg tctcctgcaa gttgctggtg 12780
gctatcgctg acgcggggaa aggcgggctg cgggtaaagt cagtgccagc agtgcaaacc 12840
aaaggccttg accctcctgg cctcgacccc tctagaaggg aactgggca ccgtgcaggg 12900
ggtggcaggg gcggtgatgc tgggagctgg cagagcctgg ggagaccgtt cactgcaccc 12960
ccagatgttg gctgttttct cctcaaaactc agaactgtat gaatgtgacc catccagaaa 13020
tagatgaatt aaaaataaca actaaagcct agcgctttga gaatcaaaga cgcacgtcca 13080
cataaaagct tgtacacaaa cgttcacagc tgcagtactc gcagtcgata agtagaaaca 13140
gccaacgtc ccataaacgg acgaacagac gggcacggcg cggccatcca cgcaccggag 13200
catgactcag ccctgaccca ggtcgccctc cggaggcacc atgaggacgt cacgctcagt 13260
gggagatgcc aaacacaaaa ggtctcgagc tgtgtgtcc catttctatg gaatgtccag 13320
agcagactca tccacagatg gggaggggat ggggagtgac ggggatggg acgaggcttc 13380
cttttagggg gatggaacat tctagaatta gacaaccgtg actacactaa aatcgctgaa 13440
ttacaccttt aagagggttt tatggcaggt gaattacacc tcagtaacag acgagcccac 13500
tgogtgcacc tggcagcccc actcaaacgc actgctctcc tgtcacccca ccctctctct 13560
gcggcccccg accacctcgt cccctgagc ccacaccctc agggccaaga ccctcccagc 13620
tetgggtcct cccatcttct cagaggagga agggaggaat tcagggccca gccaggtga 13680
gccctgggca ccggggaggc ccattggtct gagctgaggc tccaggaacc cccaaagggc 13740
agctataagg actgaagtct gccggggccc acgtgggctc accttgcat acacgtccct 13800
gagcagcttg gaggtgttga ccggggcgcg cagctgcggc gggaggctga aggtgggctt 13860
caccttgctg acggccttca gaacagtggc ccgacccctc tcagacagca gaacggcggt 13920
gaagagtgcc tgcagcttca gccctcctg gctcatctgt tccagacacc tgtggtgcag 13980
gcggcctgct cgagggacgg gccagcccca cgctgggctt ccacagaccc cagggaacc 14040

tcgtgaccac ctctgctag cctgcaggtc tcggtgtggc tgtcaggccc tctgggggtc 14100
cccagcccc agcccaggca ccgtcccaga tcttaaaacc ctgggagggga catggtgggg 14160
ggtggggggc ctcccgaac cacctacctt tcgatggtcc cggcgctcctg gtcctgcctc 14220
cccatgcact ggagggcagc cgcataggac agcagggtccg gagtcaagcc ggcacccctc 14280
accatgaata acacatatac cagctccttg aaggcaccct gggagaccaa gccagggtga 14340
gggtctgggg ggatggccca acctccacat cctccctgct ccctggagag cccttctctg 14400
tagccaccag ctacagcagg gacaggggtca ccaggcagga gtggccagct gggcagaccg 14460
atgcatcccc ctgaggttct gacacacaag ctccacctgc agaggcagcc gcatggcccg 14520
ccagggtggga ctgtgggagg ttcacgttcc tctgggaggc agcttggtta acctccagat 14580
ttgtcaattg tgtggatctt ttcaaaggac tgacttggct tgactgttct ctgctgttct 14640
tgccttccat ttcacgcatt tgttttaata tttgtaactt cctctcatct acttgcttta 14700
ggttttagtga cagcttcttc ttctagtttc ctaagggtga aggtgacgta tttggtctga 14760
gatgtttcac tttttttccc cccaagatgg agtcttgctc tgttgcccag gctggagtgc 14820
agtggcacia tctcagctgg gccgggttct ctgcctccca ggttccagca cttctcctgc 14880
ctcagcctcc tgagtagctg ggattacagg cacacgccac cacaccagct aattttttgt 14940
attcttagca gatacggggg ttcaccatgc tggccaggct ggtctcgaac tctgacatc 15000
gtgatccgcc agcctcagcc tcccaaagtg ctgggatgac aggtgtgcac caccgcgccc 15060
ggccatcacc tttccgaata taggcatttt gtgactataa attaccctgc gagcactgtg 15120
tcagctgcat cccaggactt ctgacagggt gtgttttcat tttcattatc tccaagtgtt 15180
ttogaacttc atagtttact tcttctttgg aaattttatt taattatttt tttagataga 15240
gtctcgtctt gtcgcccagg ctggagtga gtggcgcaat ctcagctcac tgtcaacctc 15300
cgctcccggt gttcaaccga ttctcctgcc tcagcctcct gagtagctgg gactacaggc 15360
acatgccacc acaccagct aattattttg tatttttagt agagatgggg tttcgccctg 15420
ttggccaggc tgggtctcaa ctctgacct caggggatcc accgcctcg gcctcccaaa 15480
gtgctgggat tacagggtgt agccaccag cccagccatg tatagcttaa atatccctg 15540
caattttttt ttttttcatt taatttttgg ccaggcacag tggctcatgc ctgtaacccc 15600
agcactttgg gaggccaaga caggaggatc acaagggtcag gaggtttaaga ccagcctggc 15660
caacatagtg aaaccccatc tccactaaaa atacaaaaaa aaaaaaaaaa aattagctgg 15720
gogtggtggc tcatgcctgt gctccctcca ctaaaaatac aaaaaaaaaa aaaaattagc 15780
tgggcgtggt ggcacatgcc tgtaatatca gctactggga gcctggggca ggagaatcac 15840
ttgaacgcag aaagcggaaa ttgcggtaag ccgggatctc accactgcac tccagcctgg 15900

gagacagaaa ctttgctgtc gacagacttg gagactctgt cttaaaatat acacacacac 15960
acatatatat atatataata aataacatat atatataatt tttttcttgt attcattttt 16020
cctgacatcc ctgttctgag caattttctcc tttgaccagc tggctgctta agagtggcct 16080
gtaactgtaa cagactattc caaagggaaa aaaattccct tacatcctcc caccatag 16140
tcctgcagct gaagacatgc tgtgacatga ggtggccaca caccagagac cagagacatg 16200
agttttgggg catttttttt tttttttttt tttgagacgg agtctcgctc tgtcgcccag 16260
gctggagtgc agtggctcga tctcggtcca ctgcaagctc tgccctccag gttcactcca 16320
tcctcctgcc tcagcctccc aagtagctgg gactgcaggc gcccgccacc acaccggct 16380
aattttttgt atatttttag tagagacggg gtttactgt gttagccagg atggtctcat 16440
ctcctgacct cgtgatccgc ccgcctcagc ctcccaaagt gctgggatta caggcgtgag 16500
ccactgtgcc cgcccggttt tggggcagtt tctaaacaac ctctgtatgg tagacctcac 16560
tgccacaca tagtccttaa attgaaatat tcagttcttc cttttacca gtttcaagt 16620
ttcagtagca cacacagctg ttggcagatg cggaaaattc ccaacatcat agaaagttct 16680
actggatggg gctgggtaga atacgtggcc gggcgcggtc gctcacgcct gtaatccag 16740
cacttaggga ggctgaggcg ggcggattac ctgaggtcag gagtttgaga ccagcccggc 16800
caacatggca aaagcccgtc tctactaaaa atacaaaaat tggccgggcg tgggtggtgag 16860
tccttgaat ccagccact caggaggctg cggcaggag aattattgaa ccaggaggc 16920
ggaggctgta gtgagccgag atcatggcac tgcaccctag cctgggcaac agacagagag 16980
tctatctcaa aaaaaaaaaa aaaaaaaaga tagaagcaat gccttagcct ggctaactg 17040
ctgaaacccc acctctacta aaaataaaaa ttaaaacaat tatccggggg tgggtggcaca 17100
cgcttgaat ccagctgct cgggaggctg agctcgagc ccagcgacat ccaggactgc 17160
tgccacccc ggaacgctgg gagaggcagg aggggccct gctagagcct ctggagagac 17220
ttcgggtctg cagacatctt gattccagac ttctgggctc gtgctaagag tgcgtttctg 17280
ctgtgcaagc cgccaggttt gggacacttt cgtaggggcc gatcccaaaa gcgccctgtt 17340
acagtgtggg ctctctgccc agggaaatcca gggggcttgt gaccttgag gggaaaatac 17400
acgacctca tctcagtc tcccgagtc tggcgcccc tgcagcaagg aggaaccagg 17460
cagcagcgc cctccacctc gggtaagag cactgaggac ttcaccgcaa gactggcccc 17520
acctgatcct gaatttgcgt gtttgatgcg ttaataaaga agcacatcaa gttctctacc 17580
acgaattggc cttaatatg cgatatctgt attttaatat aatagtatcc catgtttacc 17640
caaataatga gagaagctt tactgttgtt tctcaaatta gggctgaagg atcatggggg 17700
gggagaaagc tgggaacggt tgctgctttg aaagggtgtg taaacaacac cctccaaaac 17760

aaccaagagt tccgaggaga aactttggcc ggatacgggtg gctcacgcct gtaatctcag 17820
ctcctcggga ggctcagggg ggcagatcac gaggtcagga gtttgagacc agcttggcca 17880
acacggtgaa acccccgctct ctactcaaaa taaaaaatt aatcgggggt ggtggcgggc 17940
acctgtaact ccagctactt aggaggctga ggcaggataa tcacttgaac ctgggaggtg 18000
gaggtggcca tgagccgaga tcgcaccacc gcactccaac ctagtaacag ggagagtatg 18060
tcccagaaaa caaataaata aacaaacaaa aagaaaacgg caagggaaat tggaaaatac 18120
tccagatgaa ccacaacgaa gatgggtggg atacatctaa agctgtgctc agaggggaatg 18180
cggcgccagt gaacacccac atttcacaca gaaggatctc agcacagcag cccgaccttc 18240
cacctcagga aaccagaaaa aggagcaaag tcaaccccaa caccaaagcc tcctcctgac 18300
gagggctctg caggctgccc cccgacgagg ccaaaagcac ccctgcccag acagattcac 18360
gagccccgag aaagaacgga aggaaatgct caaggcatta gcagaatttc tccctacttt 18420
tttggtcatt ttcaaaattt gagagtcaca cgtgatttgt atttgaaaag cctaaaagaa 18480
ttattaaaat aaaaaacaaa ggacttgaac ctgggggcta agagagaaaa gtccagtcta 18540
aatgagggca agttcctgtc tccaacgacc agggcaggtg gcccggtcc cggctgcact 18600
cacctgccgc gccagccaa gcatcacggc gttgtacatg tccagcgtga gcagcttccg 18660
cttctgccgc tggccgtggt ggacgaccag caggtggtgg gcgaggggca gctggtcagt 18720
gagcaggcag cacttgaaga aggccaggag cctctgctgc tgacctgaga gctgggcctg 18780
cgagtgtgc cccgacggg cctgctccac atcgaggctc agcttcccag gggcctcctg 18840
cagcagccgg gccagctgct cctcccagg gctctcggg gcctggcgcg tgcagtcctc 18900
caggcacccg gccatctgct tgctcaggag ccggggctcc acctgcaggc gcctggtcag 18960
cgccctgaac tccccgctct ggaatggcat ctgcagcttc gccttcaacc gctgcatacg 19020
catctgctgg gtccgcttat cttctccag tatctttgcc cagcggccac agggcacccg 19080
ggtggcatcc ttggcccca tctggacctt cctgggtggc tggaggctac catctccact 19140
gccacattct gggagccgc ccacatccac cctgttcacc accacctccg acacgtctc 19200
agcctgcagc tgccgcaccc gcgcctggag cactgtgagg ggcagaaggc gaggacatga 19260
gagggacccc ctccccattc gagcacccgt ctctctggac cctgagccag gccaggaggt 19320
gcaggtggct gagctogctg ggaccaagg cgtgaattcc tcatacttgc caacaacggt 19380
gtaaggtctg cccgtgctt tocagacaca cgcacccac cacctccgca cctccccacc 19440
cgagcctcac agaactcagc agccctaaca agctgccacc gaaacctgca gcaccacgtc 19500
tccccggtca ctggcgctc agaccctcca ggtgcacagg ccagaaccc ggggtctgtg 19560
acaactccct ccgtccacct ctcagtaact cctctgggct tgccctcaga atctatccag 19620

gtggcccccg cctccccgc cctctcact gtctagctca gggcctctgc acagactccc 19680
aggaccctga accgcccact ccttggctca accatggcct gcaagttcgc accccgcctc 19740
agcaagaccc cccagctgg tggagctgcc acacacacac tcctaggctc ccagtgtcta 19800
caccggtgga cgctgagcca ctagctcgca gggaaaacgc ggctcctgct cgtgccgcct 19860
caggttgcat ttttgccaac caatcaatgc ctaagtgttc tgtatctctt taaagaagcc 19920
ttgttgaaaa tctattgctg gccgggcatg gccgctcacg tcggtcatcc cagcactttg 19980
ggaggccgag gcaggaagat cacctaaggt caggagttcg agaccagcct ggccaacatg 20040
gtgaaacccc gtctctatta gaaatccaaa aaattagctg ggcgtgggtg catgtgtcta 20100
tagtaccagc tacttgaggag gctgaggcag gagaattgct tgagcctggg aggagaggt 20160
tgagtgact caagatagcg ccattgaact ccagcctggg caacagaaca ataatccatc 20220
taaaaaaaaa agactgttga aataagccgg gtacagggcc gcgcacctgt ggtcccagct 20280
actccggtgg ctgaggtgaa agaatacact aagcctagga gttcctggct gctgtgagcc 20340
gtgatcaggc caccgtgctg cagcctgaga gacagagcag gaccctgtct caaaaaaaaa 20400
aagggggggg gggaccagcag tgtccagatg tggaggctca cgctgtaat ccagcactt 20460
taggaggccg aggagggcg atcacgaggt caggagatca agaccatcct ggctaacacg 20520
gtgaaacccc gtccctacta aaaatacgaa aaattaaccg ggcgtgggtg tgcgcgcctg 20580
tagttccagc tactcgggag gttgaggcag gagaattgct tgaactcggg aggcgaggc 20640
tgagtgagc caagatcgca ccattgact ccagcctagc aacagattga gaatccgtct 20700
caagaaaaaa aaaattgctg aaataaaaag acaagcgtga tgtccgcctt cagagtgtc 20760
caaaactcag gagatacttt taggattaac agttgagagc tttgttttgt tttgttttgt 20820
ttttgagatg gaatttcctt cgttgcccag gctagagtgc aatggcatga tctcggtca 20880
ccgcaacctc caccttcgg gttcaagcga ttctcctgtc tcagtctccc cgggttcaag 20940
cgattttcct gcctcagcct cctgagtagc tggcactgca ggcgttcacc accatgccca 21000
gctaattttt gtatttttag tagagacagt gtttcacat gttggccagg ctggtcttga 21060
actcatgacc tcttgatccg cccgcctcgg cctcccaaag tgctgggatt acaggcgtga 21120
gccaccgcac caggcctcgg acccttgacc tcttgatccg cccaccttgg ccacccaaaa 21180
gtgctgggag tacaggcgtg agccaccgca ccaggcctcg aacccccgac ctcttgatcc 21240
gccacctcg gccacccaaa agtgctggga ttacaggcgt gagccaccgc acctggccag 21300
gttttttccc ttataaaag ttctcccgc tctcccttcc cggtgccta atggacgcag 21360
acaggatgtg ggacagaagc accggcgga agcaagcaca gggaagctcc cacctccctc 21420
ccacaccacc agccaggcca ggacgaggc ctgccaccgc tggagcctg gctgtccctc 21480

ccaagttttcg cagtcaccca gtctccatta gggcctacc cccagagcc aagccaggac 21540
agctgagtcg gttcaggggt cacatcctgg ctctgcacat gtggccttgg cggcggggcc 21600
gggggggggg tctctccaga cataatcttg ggcctcacct atgtccctgg aaagtgggag 21660
cacctgggtg ggttctgggg agggggaatt acgagagctc caggaaggag cctgctcagc 21720
aaggacaggg cccatgagcg gtgcaagaga tgtttcagca acgccgtctg ggctgtcct 21780
gggacccgag aggtggagac cgcctcagc ctgtctcaga atctgagcct ttgccttttc 21840
tcccggcagc agggagcgga ctctctctc cggggccgcc gtgggggtcg cgctcacct 21900
ccagcagctc cacgtggccc cagtccttcc tgcggtcttg gtcttgctcc tgggggtcg 21960
cggacgagct cctcctgggg ccgcagagc caccggcggg cctgcgggga aagacgagag 22020
cggctgagcg gggccggcg tgtggcggg ggctccata aaggcagaag ccgaagggtc 22080
gaagggcaaa ggagccctaa acgcagcgga aactctcgga gcacgggctt aagttgaaa 22140
gaaactaaga cagcgaagg ggaagggccc cgcgcggcg aacacggcg cggaaccgcc 22200
gagagagggt tcctcgact cgaggtgcag caggtcaaag gtaagagcc ctaaaccacca 22260
cacctgggggt caggaggctg cataagaaac cagcagtcga aggtcagact gcacggagga 22320
gcctcagtcg aaaagcggc aaggcgaggt ggaaagcggg gccgggtcgg tgggctgcgc 22380
acgccaggt gcaaagagg aaaggtcaa gcgccaaagg ccccgccgc gcggggagga 22440
gcccacgccg tggcccccg gctgcctggc cgtctccctt tgtgttacct tctttgccg 22500
ggagtcccg gcggccgcaa ggccgtagg ctggttgag ccccgccgt ccgcggcccc 22560
agcaaagtgc cgacattac cagccgctc caggccacc caccggcccg cgcctgcga 22620
tgcgcccgc ccgctgccg ggagttgtg tttcatggc gacggaggct gcgaaggga 22680
acccagccg gaagtagact ccaggatgc agcgaggcg cgaaggcatg cgccggtgga 22740
cgctctgatt ggttctcct gctgttttta aagggaggg gcgggacaga gctgttgccg 22800
tggcaactgg gaggcactct caggctgtt tcccgaggac ctcaaatccg gacttttttt 22860
ctgtttttct ttcttttttg gttttgttt ggacgcgttg tggcccaggc tggagtgcag 22920
tggcgtgatc atagctcagt gcagcttcga actgctgggg taaagagatc ctgcccctc 22980
ggcttcccaa agcgtggga ttgcagacgc cgccaccgtg cccggtttt ttttttttt 23040
tttcaaggca tactcatcta ataacgagga cagcatctgc aatttagaga ttctgtccg 23100
caaccttcat tgctccaacg acaactttg ggtaagagtc attaggatgc cgtctatcat 23160
ggaggaagct gaggtcaga gagggccacc aagttgctg aagacacagc acgtgcgacc 23220
tcaggaggc tgcaaggaga gaaagccca gtccgcgaga ctccagcct ccagcttcag 23280
tttaccctcc aatccccaag cctcagggg caggagccga atggagcggc aggcttgat 23340

tcacctgcta agtggggtga ggtcaaggga atgaaataaa cctcggagcc tagagcctgc 23400
cctgggtctcc gcgtgatoct gcctaggagg agcagggcgg gagctttaga atggaacctg 23460
gaagggtgtgc ccacctgtgt cgttcagccg gggcagcagg ccagaggcgg gagcgcctgc 23520
tgtggggcag taggcttggg aagggtgaga ataggaatat ctgggggtaa ctgtgttcca 23580
ggctaatatc ccagttgcaa aggggagctg gtttgggtggc tcaggcctgt catcccagca 23640
ctttgggagg ctgaggcggg cggatcacct aaggctcagag ttcgagacca gcttggcaaa 23700
tacgcaagca tgcctggcaa catggcaaaa ccccgctctt agtaaaaata caaaaattat 23760
ccgggggttg tggcgggcac ctgtaatccc agctactcgg gaggctgagg caggagaatc 23820
gcttgaaccc gggaggcggg ggttgacgtg agccaagatc tcgccactgc actccagcct 23880
gggtgacaga gcgagaacct gtctcaaaaa aaaaaaagtg caaaggagg tcagttcagt 23940
gcctcaggcc tgtaatccca gcactttggg aggctgcggc gggaggatcg cttgagccca 24000
ggagttccag acaagccttg ggcaaccgag atactgagac ccagtctcca ccaaaggaaa 24060
aaaagaaatt agccaggcat ggtggtgcac acctgtggtc ccagatactc gggaggctga 24120
ggcaggagga ctgcttgagc ccaggagggt tagactgcag tgagctgaga tggcgccact 24180
gtactccagc ctgggttgac agaacaggac cctgtctcaa aacaaaacaa gtgcaaaggc 24240
cctgaggcag gaacaagcgt ggacagagga gcaatttgag cagagtgggg ctggggagag 24300
ggagcaaaga tgtagctggg gctcagttag ggggcctgac cacacggggg ctcgggggcc 24360
tcagctcaag ctatcctcca tccccaaacc ctggcacttc agtttcccca tcagcccaga 24420
acgaggactc gacctactc tggaagggcc tggcagcctc cttacagcac attccagacg 24480
ctgctgccga cgctgcgtg agcgactga tgccaccggc tgggaatgtt ttgacagac 24540
ggcagcacc cccctcacct gcctcagtc acctcagggt gcccagcgg gctgtgacct 24600
cagacctcac ccactactgg ggtcacctgc ctggccctga atcagccagg cctgggtgtgc 24660
caagacctac agacaccccc tgcaccctg caggctggca gagccagaaa cttgggtgga 24720
aaccgacttc tgaactatct caccattcct tatgcgttag tcttttcttt tatttgatga 24780
gatcccagca ctttgggagg ccgaggcggg cggatcacgt gaggtcagga gtttgagacc 24840
agcctggcca acatggtgaa acccgtctc tactaaaaat acgaaaatta gccgggcatg 24900
gtggcctgtg cctgtaatcc cagctactca ggaggccaag ggaggaaaat cacttgaacc 24960
tgagagggtg aggttacagt gagccaagat cgcaccactg cactccagcc ttgggcaatg 25020
tagccaaacc ccactactac aaataatata aaaaaatttt gttggctgtg atggtgcctg 25080
cctgtggccc catctacttg ggaggctgag gtgggaagat gtagaattgc ttgagccagg 25140
aggcagaggc tgcagtgagc tgtgattgag ccactgcact ccagcctggg cgacagagcg 25200

agaccctgtc	tcaaaaaaaaa	aagaacataa	tctgggtttt	ggaataagac	agcagtttct	25260
gaaacagctc	attgcccaaa	ttccagcctc	gcaactctgt	agccgccacc	accccccagc	25320
cccaccatth	attttaacta	catctgtctc	caccactcct	gtattaagta	aatgcaatat	25380
tggctgggtc	tgggtggctc	tgcctgtaat	tccagcactt	tgggagggtg	aggcaggcag	25440
atcccctgag	gtcaggagtt	cgagactggc	ctggccaacg	tggtgaaacc	ctgtctccac	25500
taaaaattca	aaaattagcc	ggacgtggta	gtgggtgggtg	cctgtaatcc	cagctacttg	25560
ggaggctgag	gtaagagaaa	tgcttgaatc	caagagactg	aggttgcagt	gagctgagat	25620
ctcgccgctg	cactccagcc	tgaacgacag	agcgagactc	cgtctcaaaa	ataaattaat	25680
aaatacaaca	ttaattatth	ttcttgctta	agttttacga	agagacttaa	tatcaccatc	25740
aaaagtggga	aaccatatat	ctggccgggc	gtgggtggctc	ccgcctgtca	tcccagcact	25800
acggggaggcc	gaggcggggc	gatcccctga	ggccggggagc	tggagaccag	cctggctaac	25860
atggtgaaac	cctcatctcc	aataaaaaata	acaaaaatta	gccggggcatg	gtgggtgcct	25920
gtaatcccag	ctattcagga	ggctgaggca	gaagaatcac	ttgaaccogg	gaggcggagg	25980
ttgcagggag	ccgagatcac	accactgccc	tccggcctgg	gcgacagagc	gagactctgt	26040
ctaaaaacaa	aacaaaacaa	aaccaacca	agcaaaccoc	acagagtoga	gaatcgctag	26100
atggaagggg	atggcccagg	tccctggagc	ccctgtgaca	aattaccaca	aactcgggtg	26160
cttaaagcaa	cgttcattht	cttacatthc	tggaaatgaa	aagtccaaaa	tcaggactgc	26220
ggggctgaag	tcaaggtgtg	tggaggcctc	gctccctcca	gaggccctgg	ggctccctcc	26280
tgcctctccc	agctthtgaa	ggctccaggt	gtgcttggcc	tgcggccaca	tcactcccgt	26340
ctcggctctc	gtggctgcac	tgcagcctcc	tcgtctgcct	gtgtgaaatc	tcctcctgtc	26400
tccgtattgt	gaccgcgtth	aggatgcccc	aggacaatct	tctccatatc	gttcagatct	26460
tcatgggtgtc	aatataattga	gactctthtt	ccaaataagg	caaatgtcac	attctagggg	26520
tcagggtggg	gacttacctt	tgggccaacc	acagaggcta	caaagaggaa	gacaccactc	26580
aatacaaagc	gtgcgccagc	ccagccctga	tcgggtgttg	ttgttggtgt	ttttgtttga	26640
gacagagtct	cgctctgtcg	cccaggctgg	agggcagtgg	catgatctca	gctcattgca	26700
acctccgcct	cctgggttgt	atagattctc	ctgcctcagc	ctcctgagta	gctgggatta	26760
caggcgtgaa	aaggagcaag	gctctgcccc	agccacagcg	cggatgcacc	ttgaggatgt	26820
catgctcagt	gaaagacgcc	agacacagaa	ggacacacag	tgtgtgatcc	cctttatatg	26880
aaatgtccac	aacaggccca	tccacagagg	caggaagggg	atgtgtgggt	gccgggggct	26940
ggcagagggg	atgagtgaca	gctgatgggg	cttcttcttg	cggtgatgga	atcttctgga	27000
actagacagt	cgtggtggtt	gcacaactct	acgaggtact	aaaatcaactg	aactggctgg	27060

gtgcagtggc tcatgcctgt aatcccagca ctttgggagg cagaagcagg tagatcacga 27120
ggtcaggagt ttgagaccag cctggccaac atggtaaaac tctgtctcta ctaaaaatac 27180
aaaaattagc tgggtgtggt ggcaggtgcc tgtaatccca gctactcagg aggctgaggc 27240
aggagaatcg cttgaaccag ggaggcagag tttgcagtga gccgagatcg caccactgca 27300
ctccagtctg ggtgacagag ccagactcog tctcaaagaa ataataataa aataaaatca 27360
ctgaactgta cagtgtaaat ggggtgaattg tgtggtatat gagtgatgtt tccgaggtgt 27420
cattaaagaa actcagacgc ctgggggtggg gccagtctca ccgctgtggg tcccatcccc 27480
atcatttctc acaaggccct cagatcacc cttccgcggtg gggggcggac actctaagaa 27540
gggaagacct gggctcctgc tggcgagaag gcggtggaca tttcttcagt gtctggtgcc 27600
gcgccctctg ccagcgtgc tccgtggagg gtctcattgt cttcctccag acgtctcttt 27660
actggcccat tttacagagg cggaaccgaa gcttgggggtg ttggccacag ggctctagt 27720
tggaagacca ggccaggctg gacctcagcc atggggaccc ctgtccctga gactgtggca 27780
cctgccacac cctctgtgtg acccgccctaa gccaggaaga gagggtcagg agatgcctga 27840
gccaccaaga aggcattcca gcgtccagcc agaccggtta tccctccaga gggctccccg 27900
gcaggacagg ctggtcgcca tgtcttcagc ctggtgctat ttaaagggtg gtgccacctg 27960
gggctgtggc cgcagggcca ggactgggct gctgggagct gtgtccccac agcggaggtc 28020
gccgcccctc tcaggcctcg gtttccccag ttgtcaatgc ctccacttgg ctgtgagtct 28080
gtgaggggtca ctgtgctcac cttttggggc ccagcgcctg gggcaggcag aggaagggtg 28140
ggggccagcc gccttgctgg gtggttcccc gtggggcctg gggatatggc ctaaggagg 28200
agcaagtgtg ggtgcgaatg gggccgcccc attcctgcg cctccgacgt gcccgcag 28260
ccggccaccg acaggctctac gtggctatcc tccctcctgc ccacctacct gcccaaacac 28320
acgtccccag tcgtcacctg cccaccacc cgcgcattcc cacacccttg tgggcctggc 28380
tttcgggaaa ctacaatttg cggggagaga agtcccacga gggcatgcc cggagcctgg 28440
ctgggtccac ggctgacgca cgcggcagga cctcccggtg ccatctctgt cccaagcat 28500
ctccgcctct gccctctct gtctctgtgt ctctctcgtc tctcccggtc atcttcttg 28560
tgtctcttga ctgccgctg ctttctgtct ctgtctccct ccgggtctct gtctccctcc 28620
aggctctctg gccccgctc tcacaactccc gcccccgcaa cccgaggctc tagcccgccc 28680
ggggactcgg ctgactcacg gacacgcccc gcgagacaaa caacaaacgc gcggaggccg 28740
agcgcggagt cccgcacggc cgcgcccctg tgcaactggc ccccgcccc gagacgtccc 28800
attggccggc gccctagcct ggtcccggcc aagtggaccc cgcggcgccc ccgaggcacc 28860
ccattggcgg gcgtccccgc ccagcgcaac ccggccccgc ccccgaggcg cccattggc 28920

cccgccgcgc gaaggcagag ccgcggacgc ccgggagcga cgagcgcgca gcgaaccggg 28980
 tgccgggtca tgcgccgcgc cctgtggctg ggcctggcct ggctgctgct ggcgcgggcg 29040
 ccggacgcgc cggaacccc gagcgcgtcg cggggaccgc gcagctaccc gcacctggag 29100
 ggcgacgtgc gctggcgggc cctcttctcc tccactcact tcttctcgcg cgtggatccc 29160
 ggcgccgcgc tgcagggcac ccgctggcgc caccggccagg acagtgagtg cggggcgggc 29220
 ggggcctggg gtggggaggc ggcggtgac ggcaacgcgc ccgccgtctt cacggtgacc 29280
 tgcgcccgcg ggggagtccc ggaggctcct ctgtgcagcc tcggcctcag tttccgtggg 29340
 ctgtgagatg ggtgcagcct gcctggtggg aggggtgcac tgttaaagcg aaggctgcag 29400
 cggcgacccc ggctcagggg cagagaagcg tccgtgtggg acaaccctgt ggggtggggc 29460
 acccatctgc aggtgggaaa ctgaggctcc agaggggctg gggcaggccc agctgcatgg 29520
 cggaagcggc ggggggctga cctccggact cctgacatca cagaatccag tcagggctgc 29580
 ctgagtcggg gccccctctg cttcttccca gacacccat ctggcaggtg aggacaagga 29640
 ggcacacaga agggatggga cctgcccagg gtcacactga caggggtggc ggagctgggt 29700
 cccacaggg cccaggacgt caccggagcg gogtctctgt cccagggtc tgccgagcac 29760
 actgaggtag gccctcagt tttgtggaat gtcaggagca agaggagagg ctgggcacag 29820
 caggggatgt ggttacctgg aggccagggg agtcgggtgc cccgccgggc ggggggact 29880
 gggaaggggg cccgggcccg ctggctgccg cctgaatcac caccatcagg gcaggtaatc 29940
 acccctgtc cttcccaccg ctttcatctg ggcgccaagg ccctcattag gccgcacgtg 30000
 acgagggcg acaggggact ggctgggccg gtccatccat ggcgggcatg gccaggcggg 30060
 gtggcctcgc gccggggcag aggcctggct ccgctgctg acctggaaca gtctctgcct 30120
 ctctccaagc ctcggtttcc ccagctggac ggtgatgggg gtgagggcta gctgagggct 30180
 ctctgcctc tctgtcattc gctggctact aatcgggcac cttgtgggtg ctgtgctccg 30240
 catgggggac ccagtgggta cagagacgcc caccctcctg gggctcccag agcagaggcg 30300
 cgcagcagtt agacacgtga acaaggcggc aggtgggtgc acagaacagt gaacggttgg 30360
 ccgggtgcag tggctcacgt cggtaatccc agcactttgg gaggccgagg cgggcagatc 30420
 acgaggtcag gagatcgaga ccatcccggc taacacggtg aaaccccgtc tctacaaaaa 30480
 atacaaaaat tagccgggtg tgggtggcgg cgctgtagt cccagctact cgggaggctg 30540
 aggcaggaga atgacgtgaa gccgggaggt ggagcttgca gtgagctgag atcgcgccac 30600
 tgccctccac cctgggcgac agagcgagac tccgtctcaa aaaaaaaaaa aaaaaagaa 30660
 cagtgaatga cgtgaacaag ggtgcaggtg ggtgcgcaga acagtgaacg gcggtgttgg 30720
 gaggcacctt gccaggggag gggaggtgca gggcgaggaa ggggcccagg gagatcgtga 30780

cacagacgcc ccagaacaac cacctcaaag acgttcctgt gtgtcctgga aggtcgggct 30840
gggaggctgc cccgaggagc ttctactttg acagggagct ggccgggcac gcagggaact 30900
gtacacccag ctgacaaagc ggcagacacc caggccgggg tgagcgagtg tgggtgagga 30960
gtggcggctg gccccagggt ccttgctgga caagacactt cagctcaggg tggggcaggg 31020
ctcaccagc gctaccacac gacgatggcg tccaaatctg gctctgccac tcccaggcct 31080
caactggccc ctctgcaacg tgggctgctg agcgggcttg gtaggacagc tggcatacag 31140
tcggcgctca agcatgtctg tgggtgtcca taaaccaccg gtgtccact ctaggccact 31200
gccagcccgg cctccagtcc agagtcccag tccggagtcc cagtgactgt gcgtgggccg 31260
ggcagctgag ctgtgagggc cgggctgggg gctccatatg ggggtggtg agctgtgagg 31320
gccgggctg gggctccata tggggtggtg tgagctgtga gggccgggct gggggctcca 31380
tatggggtg tgtgagctgt gagggccggg ctgggggctc catatggggt ggtgtgagct 31440
gtgagggccg ggctgggggg tccctggggt ggtgtgagct gtgagggccg ggctgggggg 31500
tctctggggt ggtgtgagct gtgagggccg ggctgggggc tccatatggg gtggtgtgag 31560
ctgtgagggc cgggctgggg gctccatatg ggggtggtg agctgtgagg gccgggctg 31620
ggggtccctg ggggtggtg agctgtgagg gccgggctg ggggtccctg ggggtggtg 31680
agctctgagg gccgggctg ggggtctctg ggggtggtg agctgtgagg gccgggctg 31740
gggctccata tggggtggtg tgagctctga gggccgggct gggggctccc tggggtgctg 31800
ctggctgctg gctcattgac agttatcagt ggtctgggtg ggccctgcc cttctgactc 31860
ccacatccca ggaaccctt cccaacctc ctctgtgtgt tctgtcccc ctgacgtccg 31920
tccctctggg tgtgtgggag ccccccgcc atacacacac acagatgctg ctcttgggct 31980
gagctgcagg gacagcgctg acctggccct cccacggggt cctcatogat ctctgcactc 32040
ccccagctg tggggggcgt cctgcttccc gtccctctg cctgtctctt gctcctccct 32100
cacatgctg ggggggctcc tgggtgcagt cacggctctg ggggatcctg agtgtccgtc 32160
gtggtcggga ggggactcgt ggtcccggg gtctcctggt atctgtcgtg gtctgaggg 32220
ccctgcacga agcacagcg acagcagcg tgctgggggt gagccagcaa ggccctcccc 32280
gaaccccgcc tccccaggc atcctggaga tccgtctgt acacgtgggc gtctggtca 32340
tcaaagcagt gtcctcaggc ttctacgtg ccatgaaccg ccggggccgc ctctacgggt 32400
cggtgagtgc cgggcagggc tgggcgggc gggcagggtg gggagggtg gccggcctca 32460
ccccgcccg cagcgactct acaccgtgga ctgcaggttc cgggagcgca tcgaagagaa 32520
cggccacaac acctacgct cacagcgctg gcgccggc ggccagccca tgttctggc 32580
gctggacagg aggggggggc cccggccagg cggccggacg cggcggtacc acctgtccgc 32640

ccacttcctg	ccogtcctgg	tctcctgagg	ccctgagagag	ccggcgggctc	cccaaggtgc	32700
ctgggctggt	ggcgaggggc	ccggccacgc	ttgttcttcc	cctgcggggc	tctgtaagcg	32760
ctgagtcccc	accgtgtgcg	ggcgctgtgg	acacagccca	ggagccctcc	aggggggtcc	32820
cagcctgagg	gggtggtggc	caccaagcag	gttcaatcct	gagttgggga	cctcgaggac	32880
ccaacagggc	gcctctcggg	ctgaaggacg	cagacgtcga	aaggctcgagg	gggacgtccc	32940
aggcagggcc	cggcagaggc	aggggctcgg	ggtggggagc	acgttggggag	tgggggcagg	33000
agcggagggg	aggggagggg	gccggggaga	cggtgacaga	cgccgcagaa	caccagcctc	33060
gaagccggtc	ccgtcccggg	aatctgcaaa	tacaacgcct	tgcgaggaca	aaggcacctg	33120
cagggtgggac	ggagatggag	gagcatccag	ggtgggggggt	ccagggcccc	agtgtcctca	33180
cagggtcctc	acgacaggag	gcgggacagt	gagagccaga	gagagatggg	gatggggccgc	33240
gctgtggccg	tgaaggggag	gaagggccct	aagctgaggg	acgtgggtgc	ctccagatgc	33300
tggggaaggc	gggaacggtt	ccgcactgga	gcccccgga	gggaccggcc	tgtccttgcc	33360
ttgatatgag	cccagtggga	cccagtttg	actctggcct	ccagaaccgc	cagaaaataa	33420
acgtagtaag	ccatcaactt	tgtggtcttt	tgttacagca	gacgtcggaa	atatgcacac	33480
ggtgtctgaa	actgtttotca	tgacaaaata	agcctcagat	cccccgggga	agggcggagg	33540
ccaacgcctc	ggtgttctc	cgatcccccg	ggaagggcgg	aggccgacgc	ctcgggtgttc	33600
ctcggatccc	ccgggaaggg	cagaggccga	cgctcgggtg	ctcctcagat	cccccgggaa	33660
gggcagaggc	tgagggcagg	agccgtgctg	ggtgcagggc	aggcctgggg	gcttcatgcc	33720
gctgtcctgc	gggacgcaga	gagggctggc	cgtcgggtgtg	ggggcgcccc	cacctgtgcc	33780
cagcgccctc	ctgacatcct	gactccgctg	ggacttctgc	ctacagccct	gggagtcaaa	33840
ctccagcctc	tcagagaaaa	ggtcagagcc	aagagcccca	cagcctggag	ccaggcagtg	33900
acaccctggg	cctgtctccc	cttctgtgtg	tggggcgaca	gcagcatcgc	cctggtgaag	33960
tccccgggga	cggccagggc	tccatcccca	gccgccgcct	tccacataaa	tacaggaaga	34020
ctgggcccag	gcacttgctg	ggaggtgctg	agcagcctga	cacggaaaac	ccttctggga	34080
aggdagggtc	gtgcccggcc	cgagagcttc	tgctaccct	gcagacagaa	gcgagcccca	34140
cccagggga	caccaggcgg	cctctgggga	catctttggc	tggcatggag	tgggtggagg	34200
acagggctgc	accaggatg	tccccaggtt	ggcagtgtga	ggggagatcg	gcccacgttg	34260
gccagtccga	gggcgtcgcc	aottgagttg	tactggggag	ctgcacaggt	caccacagct	34320
gaaataaaac	ttgctggcac	cccacgcagg	aacgtaacat	gtgcctcgaa	gaaacgggtc	34380
agcaggccgg	gcgcgggggc	tcacgcctgt	catcccagca	ctttgggagg	ccgaggcggg	34440
tggatcacga	ggtcaggaga	tcaaggccat	cttgggtcaac	atggtgaaac	cccggtgtcta	34500

ctaaaaatac aaaaaattag ccgggcggtg tggcgggcgc ctgtaattcc agctacttga 34560
gaggctgagg cggggaatcg cttgaatccg ggaggcggag gttgcagtga gctgagatcg 34620
cgccactgca ctccagcctg ggcgacagag cgagactccg tctcaaaaaa aaaaaaaaaa 34680
aagaaacagg tcagcagttg tttctttgtt tctaaaacag agcgtggaat gggcgtagac 34740
ctccgcacat ccaggggcag tgaaatcccg gttcacacag agccctcagc agcttattcg 34800
caagcccaaa cctggggacc ccggttgtcc tcaggcagtg aggtgggggc cccccaacag 34860
agaggagcgg cctgggggca cagaaccagc ggctccccag gaaatcgcca gcagtgaana 34920
taagacaacc ccaaactgtt gcaaactgtg cttccgctta cgaagcactc ctgagcggca 34980
gggcggtatg ggagagggcg gctgcaggcg cgaggggccc ggggacgcag gggcggggc 35040
cttaccaggc ccctgtcctg tcgtgcagca ggctcctggg gcagggaaga caccaggggc 35100
ggccacttct tactgtgtc tgacctcgag caatgcggcc tcacagcccc caccaggggtg 35160
ccggtgtcct ctgggcccag cgcccccgag gctcatgcct gggcggggcg aaccaatcg 35220
tctgtcct ctggccactc cacgcgaggg aagtcccagc ctacagggca ggcgcacacc 35280
ccggcagcat ctctgacaaa ggccctccag ttccgagtct ccagggtccg ccgctgcaag 35340
cctcacctgc ccagccctcc tctccagctc caactccaac tcccaagaac caccacggac 35400
acacagaacc cgagccttgt ctccctcaac gcctcctgac tcaaaactcc atcttccaac 35460
aggaaaacgg ctcgcccggg ggactgtgac ccggagcagg cgcccagcc tgcgcgcag 35520
actcggggc taaaacactt gttctctcag tccggagatc aaggacgac cgaggtaacc 35580
tccctacctc ggtgtcctcc atgcaacctc gtcttagggc accgggtacg ttacctcgtg 35640
aggagccgag tccgcgggtc ctgggggtga gatgtggacg ccctcagggc tggcactctg 35700
ccctggcggc cacagtcagt gaagtcccaa cgcttctctc ggctccgcaa cccagaggg 35760
cgccacagag gagggccgc cacgcacgac ccagagggc ggccaccagg agggcccgcc 35820
acgcgcgacc ccagagggcg gccaccagga gggcccgcca cggcgttgcg gcagcagccc 35880
agaaggtgcc ctgcgcaggg tccggacagg tgggatccga gttacctggc caagggggct 35940
gacgcagaca cgtcgcggga cacagtgaag agtgtgtgac agagcggagg gcgggagtct 36000
ttggagaaca ggtagggggc tggggcacgc gcctcccacg cgcaggagcc gtctaccgtg 36060
gagggacacg ggtggtcctg ctggaggctc ctctccgtta gctgtctcca tcgtctgatt 36120
cttgatccc aggatgggtg gatcatcagc aactgagatg aaccactgc cccggcccc 36180
tgagcccgca ggtccccacg cttgccagc tgtgcccgag ctggctgcac cccgggccag 36240
gcatccagca accttgagca gtgggggtccg gcttttcaga aggggccagg aaccgcgtg 36300
gctgaggtgt gaccgaagcg tggggcagag gcgctgggcc ctggcgcttt aacgctggtg 36360

tttctggttt taaatttcac gacccagtga cactgccacc ctgctacctc gccagcagcc 36420
 ctctctgggct taacttcggg agagcagttt tgctagccgg ccctgggtgc caagccctgc 36480
 aggaggcgca gaccctgga gacaggaccg gactctgcag agcccagca gcctcccagc 36540
 ttggcctttt cctgacgcac gggcgagaa ggaaagccac agcaccggct tctctttgta 36600
 agtagtgat tttaaatagc tttcaagata cacatatttt ttcctttaaa aaagtctgtt 36660
 ggagcagttt tgttcttgaa ttttctgtgt catctcatg gtcccgagcc cccctactcc 36720
 gggctgtgga ggcggccgag ggggaggtg ggggcccacg tggcccgctc tggcgccacc 36780
 tgcagcactg ggggagccgc tgaaccccggt gcttcagcgc tgggggagcc gctgggcccc 36840
 gtcttccgcc acaaaccatg catggccgcc acgtgagctc aaacgtccgt ttatttcaaa 36900
 gcagtaataa tttaaaatta taaaaatctt tccaccgctg aacgtttaga gggtagggtt 36960
 agacagagga cggggaggct ggggacgccc cagaggggac catgtggccc acgccttccc 37020
 aagccagggg gccggtgggc cgggcccggg tctgcccgtg gaacaggcgg gacctgcagc 37080
 gctgaccagc caagcgtggc gccgcccggg caccagctct gtgggtgccc tgtggcgctg 37140
 gctgaggggtg ggtgggaaag gcccgtgct tcccgcagc cgcagctggg ctacagagtt 37200
 gcttgtggcg ttctcgttgc tggcgagct ggaggaggac gatgacgacg aggaggagaa 37260
 gctcacccca gtgaggccag gggggttcgt ggccgtgttc tgtcccgtga ggctttttcg 37320
 gcagacgggg cagctgtcgt gctttgtggg gacagaggca gggacgggag aaggggcagg 37380
 ttagaggcgg gagggccgcg gtcgggggtg gggggcgggt gggcggggca ctacctgct 37440
 ccagccaggg cacgatgcag ccgtcgtgga acaggtggtt gcagggcagc tgccgcacac 37500
 gctcacccag cgcgtagtcg tccttgaca cagggcactc gagcccgag cctgcgggag 37560
 tgtgcagctg cggtcacagc gggcgtgggg ggccgtccga gccttcaagg gcaggctact 37620
 ccacagcctc agccggaggc cggccctgag ccagcgagg ggagaaaagc cgtgtgtgtg 37680
 tccccgggc tgccagaggg gacctggaca gaacctctc ctcccagccc accttcaggg 37740
 aaatgctcga ggccgggtgc ggtggtcac gcctgtcatc ccagcactt gggaggccga 37800
 ggcaggagga tcacctgagg tcaggagtgc gagacctgcc tgaccaacat ggtgaaaccc 37860
 tgtctctact gaaaatacaa gtatgagcca ggcgtggcgg cgggtgcctg taattccac 37920
 tactcgggag gctgagctct catacctacg tgctcctcag tgacggggac ggtggggagg 37980
 gcctggattt tctctttatc tgccggtggg gggcctgtgt tttcaaactg attgaggagc 38040
 tgaaagacaa gaggcgagag tgccgggagc tcctcggggg cccggcccgg ggctctgaaa 38100
 cgcgaggctg caggacctgc aaaagcaccg aggccgcgtt tgtcctgggc cctgggcccc 38160
 ttggagcccc cccggggtcg gagatc 38186

<210> 39
<211> 720
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<400> 39
cgccggcgct tgacctgact ttcataaatc gaaaaggaaa tcctctatga acgcactgca 60
tcgcatcggc gccggaacgc tactggccgt gttgctcgtt tttggcctga ccggctgcgg 120
ggagaaggag gaggttcagc agtcgctcga gccggtggct tttcacgact ctgacgagtg 180
tcacgtgtgc ggcataatca tcaactgactt ccccgcccc cagggccagg cggctcgaata 240
gcgggggagtg aagaaatttt gttccaccgc cgaaatgctt ggttggtggc tgcagccgga 300
aaaccgtctg ctcatgcca agctctacgt ccacgacatg gggcgagcgc tttgggaaaa 360
gccggatgac ggtcatctga tcgacgcaac cagcgctac tatgtggtcg gtacgtcact 420
caaaggcgcc atgggcgcgt cgcttgcaag ctttgccgag gagcaggacg ccaaggcgct 480
tgccggcatg cacggcggtc gtgtgctgcg cttcgaggaa atcgatcagg cgctgctgca 540
ggaggctgca agcatgcagc acggcgcat gcacgacct gcgcaaacg gtgcacataa 600
cgcacacgca ggccactgag cagcagtggc ctgaacagca cacacaagaa atcgaggtaa 660
gcacaatgat gggatcagc gtctggcaac tcctgatcat tcttctgac gtcgtcatgc 720

<210> 40
<211> 127
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<220>
<221> Misc_feature
<222> (9)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (101)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (119)
<223> N is any nucleic acid

<400> 40
gcggccgcnc ggcgctggct gctgtgcgga ggccacggcg ggccgcgagc cgctcgtcc 60
tcgccctcct gccctgggtg cggcccccg ggtcccgagg nccactcgc cccggcgtn 120

ccgcgct

127

<210> 41
<211> 6858
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<400> 41
actcgccaag tgatcgaccg gcccctgagg gccgcgacgc agagggcgcc ccgtgcactg 60
gcacaggcgg ccttgtgctg tagactctga tattcgtgcg ccctctcgtt ggcaggacca 120
tccatcctgt gtgccggggg ccgcgcacac cgatcccggg tccgcctcgg ccctgccctg 180
cgcgcccctc cgttctcgac ctccccgacg ctgtctgaac acgcgtcgcc gggggacgac 240
ggcggggcgg ccgcctcggg ggaggggtaa gcgtcccggg atgcccgttc aaccgttccg 300
caaggctcgc ccacgtggg ggagaaccgg cgcgacgcta ggagagacaa gtgatccagc 360
aggagtgcgc gctcaaggtc gccgacaaca ccggtgcgaa ggaaatcctg accatccgtg 420
tgctcggcgg ttccggacgc cgctacgcag gcacggcgga caccatcgtc gccaccgtga 480
aggacgcat ccccgggcgg aacgtcaaga aggcgcacgt cgtcaaggcc gtggtggtcc 540
gcacccgcaa gcagtccgc cgtcccgcgc gctcgtacat caagtctgac gagaacgcgg 600
cggtcacct gaagaccgac ggcgagcccc gtggcacgcg catcttcggc cccgtgggtc 660
gcgagctcgc tgacaagaag ttcatgaaga tcgtgtcgtc cgccccggag gtgatctgac 720
ctcatggcca agatcaagaa ggacgacctc gtgcagggtca tcagtggcaa ggacaagggc 780
aagcagggca aggtcctcgc cgtgttcccg acggatgagc gcgtgctcgt cgagggcggtg 840
aaccgcgtga ccaagcacct gcgcgccggc caggacaaca acggttccac cgagggcgggc 900
ctgcaggtcg tcgaggcccc gatccacatc tcgaacgtgg ccgtggtgga cccggagacc 960
aagaagccga cccgtgtggg ctaccgcttc gagaccgtc agaaggacgg cgtgacgaag 1020
accgtgaagg tccgcttcgc caaggcctcg ggggaaggagc tgtgatgacc gaggtgcagc 1080
agaccgagaa ggtcaccctc cgtctgaaga ccaagtaccg cgaggagatc cgcggaacgc 1140
tgcaggagca gttccagtac gggaacgtca tgcagggtgc gggcctcgtg aaggctcgtc 1200
tcaacatggg cgtcggcgag gccgccaagg actccaagat catcgacgac gccgtcaccg 1260
acctcaccgc catcaccggc cagaagccga tgatcaccaa ggcccgcaag tccatcgcgc 1320
agttcaagct gcgtgagggc atgccatcg gcacgcacgc caccctccgt ggcgatcgca 1380
tgtgggagtt cctggaccgc ctggtcacgc tgccgctgcc gcgcatccgt gacttccggc 1440
gcctgtccga ccgccagttc gacggcaacg gcaactacac cttcggcctg tccgagcaga 1500

ccgtgttcca cgagatcgat caggacaaga tcgaccgcgt gcgcggcatg gacatcacccg 1560
 tggtagacgac cgccaagaac gacgacgagg gccgcgcgt gctcaaggcg ctgggcttcc 1620
 cgttcaagac cgaccagtaa gacctccacg ccacaggtcc tccaccggtg aaccggtggc 1680
 ggaaaccacg gcgagaaagg gcgtgaagca catgaccatg accgatcccg tcgcagacat 1740
 gctgaccctg ctgcgcaacg caaactcggc ctaccacgac accgtgtcca tgccgtcctc 1800
 gaagctgaag actcgcgtcg ccgagatcct caaggccgag ggctacatcc aggactggcg 1860
 cgaggaggag gccgaggtcg gcaagaagct gaccatcgac ctgaagtctg gcccgacgag 1920
 tgagcgtgag atcgccggcc tgcgcgcgt ctccaagccg ggctgcgcg tgtacgcgaa 1980
 gtccacgaac ctgccccacg tgctgggcgg cctcggcatc gccatcctgt ccacctcctc 2040
 tggctctcctc acgaaccagc aggccgcca gaaggtggc gtgggcggag aagtctcgc 2100
 ctacgtctgg tgacgggcaa gacggaagaa aggtgaact gacatgtctc gaatcggacg 2160
 tctcccgatc accatccccg ccggcgtcga tgtgaccatc gacggcgacc gcgtctccgt 2220
 gaagggcccc aagggcccca aggtcagct cgagcactcg ctgcccacgc ccatcacggc 2280
 caccctcgag gaggggcagg tcaccgtggc ccgccccgac gacgagcgtg agtcccgctc 2340
 cctgcacggt ctgaccgta cctcatcag caacatggc gagggcgtga ccaacggctt 2400
 ctccaagcag ctcgaggtcg tcggcaccgg ctaccgcgtg caggccaagg gccaggacct 2460
 cgagttcgac ctgggctact cccaccccg cccggtgaag gtgtccagg gcacacctt 2520
 caccgtggag ggtaacagg tcaccgtcgc cggtatcgac aagcagcagc aggtcggcga 2580
 gaccgcccgc aacatccgca agctgcgccg ccccgaccgg tacaagggca agggcgtcta 2640
 cgcgggcgag cagatccgcc gcaaggccgg aaagaagtga tgtctactct gaaggtgaag 2700
 ggcaagggca agttcaacgc ccgacccgc cgccacctcc gggtagcga gggatctcc 2760
 ggcaccacgt ccgtcccccg cctcgtcgtc aaccgctctg cacggcacat gttcgtgcag 2820
 gtcgtggacg acacgcagag ccgcacgac gcgtacgcct ccaccatgga ggccgacgtg 2880
 cgtgcgctcg aggtgacaa gacggccaag gccaaagcgc tgggcgagct cgtcgccgag 2940
 cgtgccaagg cgcccgcat cgaggccgc gtcttcgacc gggcgggcaa caagtaccac 3000
 gggcgcgctc cgcccggtgc cgacggtgc cgagagggtg ggctgcagct gtgaccgaga 3060
 acatcaacca gaaggacact caggtgaccg agagcaccga gaccaccgtc tccgagaccg 3120
 ggtcgggctc gcgagccaga ccaccgagc cgccaccggt ggccgcggcg gtcgcgacgg 3180
 cggccgcggt ggccggacgg cgtcgtcgt ggcgccgctc ggacgaccga accgtcgtgg 3240
 cgcccaggac gacgaggaag gaccagttcc tcgagcgcgt cgtgggcac aaccgcgtct 3300
 ccaaggtcgg ccgcgcttc tccttcaccg cctcgtgggt ggtgggtgac ggcgacggca 3360

ccgtcggcgt cggctacggc aaggcgaagg aggtccccgc tgcgatccag aaggccgtgg 3420
aggaggccaa gaagtccttc ttccgcgtcc cccgcgtcgg ctccaccatc ccgcacctgg 3480
tgcaggggtga ggacgcgcgc gggtcgtgc tgcctccgcc ggccctccccg ggtaccgcgg 3540
tgatcgccgg cggctccgtg cgcgccgtgc tcgagtgcgc cggcatccac gacgtgctct 3600
ccaagtccat gggctccgtg aacgcgatca acatcgtgcg cggcacgggtg gagggcctca 3660
agaagctgaa gagccccag gccgtcgcgc cccgcgcgcg caaggccctg gacgagatcg 3720
cccccatgc gatgctgcgc accatggaga acgatcgcgc ccagaagagc gcgaaggcag 3780
gtgctgacg cgtgtttgag tccactcgca agaacatcca gccctcggac gccaccctgg 3840
tcatacccca gaccgcgcgc gtcacgggt ccaagcagaa ccatcgggac accctgcgct 3900
cgctgggcct gaagcggatc ggccaccagg tcaccgcga ggccgacgcg gtgacggtcg 3960
gcatgggtcaa caccgtgcgc cacctgggtg ccgtggagga ggtcaacaat ggctgacaac 4020
gacgccatca aggtccacga cctgcgtccg gccccgggtg ccaagaccgc caagaccgcg 4080
gtgggtcgcg gtgaggcgtc gaagggaag accgccgtc gcggcaccaa gggcaccaag 4140
gcccgttacc aggtccgtgc gggcttcgag ggcggtcagc tgccctgca gatgctctg 4200
ccgaagctcc gcggcttcaa gaaccgttc cgcacggagt accaggctcg gaacctggac 4260
aagctctccg cgcacttccc cgagggcgt gaggtcacgc tggacgcgt cgtctccaag 4320
ggcctcgtcc gtcgtggcca gcccgtaag gtgctgggca cgggggagat caccgcggcc 4380
gtgcaggtga aggcgaacgc cttctctgcg tccgccgtgg agaagatcca ggccgcgcgc 4440
gggtccaccg agacctctg acacgccgac ccatcgaccg agggccctgg ccggagcagc 4500
cgctcggggc agggccctgg ccgtccgtgt agactcgcac agccgccccg gtgtggccgc 4560
cgtctcgtgc ccccgccccg cggaacggcg cagcccccac aggaccagcc gcaggaggac 4620
tcgtgctcaa ggccatcgcc cggatcgtcc ggacgcctga cctgttgccg aagatgcct 4680
tcacgctcgg gctcatcgcc gtctatcgga tgggcgactt cgtgccggcc accggcgtgg 4740
actaccgcgc ggtgcagcag tgcttgccag cgggcaacgc ccaggcggc ctgtactcct 4800
tcgtgaacat gttctcgggc ggggcgtcc tgcaggtgc tgtcttcgcg ctgggcatca 4860
tgccgtacat caccgcgtcg atcatcgtgc agctgctgc cgtggtgatc ccgcgcttcg 4920
agcagctcca ccaggagcgc cgcaggggccc aggcgacgct gacgcagtac acccgctacc 4980
tgaccctcgc cctcgccctg ctgcaggcga ccacgatggc ctgctggcc cgcaccgggg 5040
ccctgctcgg atgcagcctg ccgctgctgc gcgacggctc catcctcac gtgctgctcg 5100
tggtcatcgc cctgaccacc ggctgtctca tcgtcatgtg gttcggggag cggatcaccg 5160
agaacggcgt gggcaacggc atgtccctgc tcattctcac ctccatcgcg gcaggcttcc 5220

cggccggtct cggccaggtg gtccagacgc agggctggcg cgtgttcgcg atcgtcatgg 5280
 ggatcggcct gctcaccatg ctggccatcg tcttcgtgga ggagtcgcag cgccggatcc 5340
 cgggccagta cgccaagcgg cagatcggct caccggaccgt gggcgggtcg agcacctaca 5400
 tcccgggtcaa ggtgaacatg gccaacgtca tcccgggtcat cttcgccctcc tccgtgctga 5460
 tgctcccggy catcctcatc cagttcaaca cgccgcagga cggcagtgcg ccggccccgt 5520
 ggatcacgtg gctgagccgg tacttcggct ccggtgacca cccggtgtac atggccctgt 5580
 acttcctgct catcatcggc ttcacgtact tctacgtgtc catcacgttc aaccgggtgg 5640
 agatctcgga caacatgaag cgctacggcg gcttcatccc ggcggtccgcg ccggccggcc 5700
 ccaccgagcg ttacctgcag tacgtcatca gccgcatac gttcgtgggtg ggggccctct 5760
 acctcggtat cgtggccatg atcccgtga tcgccttcgc ggtgatcggc accagccaga 5820
 acttcccgtc cggcggcacg tccatcctca tcatggtggg cgtcggcctc cagaccgtga 5880
 agcaggtcag cgcacagatg gagcagcgcc actacgaggg cctgctgcgc tgagccccga 5940
 cccgatcccc caacgccgtc cgtatcgaca gtgaggaaca cacgatgacc cgcattgtgc 6000
 tcatggggccc tcccggttcc ggcaagggca cccaggccac ccggatcgcc gacaagctgg 6060
 ggatcgtccc gatctccacc ggtgacatct tccgccacaa cgtgaagtcg atgacgccgc 6120
 tcggcgctga ggccaagagg tacatcgaca acggcgactt cgtccccgat gaggtcacga 6180
 accgatggt cgccgaccgc atgcccagg ccgacgcgga gcacggcttc ctgctggacg 6240
 gctaccccg cgacgaaggc caggtcgagg cgctggacgc catgctcgcc gaggcgggcc 6300
 agtcgctgtc cgccgtcgtc gagctggagg tgcccgaaga ggagctcgtg gagcgccctgc 6360
 tcaagcgtgc cgagatcgag ggccgcgcgg acgacaccca ggaggtcatc gagcaccgcc 6420
 tggacctgta ccaccgcgag accgagtcgg tcatccagga gtacgtggag cgcggcatcg 6480
 tcgcccgcgt ggacggcacc ggccagatcg acgacgtcac cgagcgccctg ctgcaggccg 6540
 tgtactccgt gcgctccgcc acgggctccc tgcccgtgat ccagccgggc gcggagtcct 6600
 gaccccgtag tcggccgccc ctgctcgag ctcaagaccg cccccagct gctggccatg 6660
 cagcgcgcg ggggtgtcct gtccgaggca ctggacgccg cgtggtccgg cgcgccgggc 6720
 ttcaccaccg cggagctgga cgccgtgttc gcggtggtgc tggccgaacg cgggtgcgacc 6780
 tccaacttcc tgggctacta cgacttcccc gcctcgatct gcacctcgg caacgaggag 6840
 gtggtgcacg gcatcccc 6858

<210> 42
 <211> 578
 <212> DNA
 <213> Homo sapiens

<220>
<221> Misc_feature
<222> (5)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (23)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (31)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (48)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (211)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (292)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (308)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (350)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (384)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (477)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (507)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (529)
<223> N is any nucleic acid

<220>
<221> Misc_feature

<210> 44
<211> 333
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (82)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (255)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (275)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (299)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (313)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (324)
<223> N is any nucleic acid

<400> 44
ggcacaggtg actttagcat gcagagcagc aaagagagag caaccaccaa catcatccag 60
ccgctgctcc acgcacagtg gntgctgggg gactgggtctg agtgctctag cactgcgggg 120
ccggctggca gaggcgaact gtagagtgc gggaccctc cggtgcaggc ctctgccacc 180
tgcaacaagg ctctggaaac ccgaggatgc caagccctgg cagaaccagc tgtgccccct 240
gtgatttcag ggggncaggg gccattttgt gctcngggac atgcggtaat ggaggttgnc 300
agacaaggtc ttncattgtg gtgnatgggt tcc 333

<210> 45
<211> 102
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<220>
<221> Misc_feature
<222> (64)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (69)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (71)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (72)
<223> N is any nucleic acid

<400> 45
gcagcagcag cgcagcgcag agagagcagc agcagcagca gcagcagcag cagagcagat 60
cntnctggna nnaaaaaatc gcggcagcag ctgctctagc ag 102

<210> 46
<211> 123
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<220>
<221> Misc_feature
<222> (9)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (51)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (52)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (57)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (67)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (123)

<223> N is any nucleic acid

<400> 46

caggcaagnc ggcacgtagg agcagcagca gcagcagcag cagcagtaac nnagtcnacg 60
agggggngcc cgggacccaa ggcgcccga cagagaggcg gagcacaatc cactggtcgg 120
cgn 123

<210> 47

<211> 109

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism:Unknown

<220>

<221> Misc_feature

<222> (87)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (95)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (102)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (106)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (107)

<223> N is any nucleic acid

<400> 47

ggcacgcagg agcagcagca gcagcagcag cagcagcagc agagagagag cagcagagag 60
agagagcagc agagcagagc agagcanagt agagnagagc anagcnnac 109

<210> 48

<211> 293

<212> DNA

<213> Homo sapiens

<220>

<221> Misc_feature

<222> (86)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (166)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (185)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (209)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (214)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (219)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (234)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (290)
<223> N is any nucleic acid

<400> 48
ggcacgaggg ggaaactgct ccgcgcgcgc cggggaggag gaaccgccc gtcctttagg 60
gtccggggccc ggccgggcat ggattnaatg cctgagccc ggtcccgtg tcttctgctt 120
cttcccttgc tgctgctgct gctgctgctg ctgccggccc cggagntggg cccgagccag 180
gccgnagctg aggagaacga cttgggttng cctnccana aaatgggaag ggantttggg 240
ttaatcgaag tcattgggac cattttaaaa ggggcttctt ggattatagn ctt 293

<210> 49
<211> 506
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (283)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (342)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (356)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (362)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (364)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (368)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (429)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (454)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (461)
<223> N is any nucleic acid

<400> 49
aattcggcac gagcaccg cg cactgcagt cttctgccct gctggacagc agcagcagca 60
gcagcagcag cagcagcagc agcagcaaca gtaacagcag cagttcgtcc ggaccaaac 120
cttctacctc ctttgagccc atcaaggcag accccacagg tgttttggaa ctcccccagg 180
agctgtcaga aatctttgat ccacacgag agtgcagtag ctgggagctg ctggaggagt 240
tgatgtcctc agaagtgttt gccctctgc tttcgtcttt ctncaccccc gggagaccac 300
gattatatct acaacctgga cgagagtga ggtgtttgtg anctcttttg atgtgnctgt 360
tntnaacntt tgactgacag ggacatgcct tttttggttg ggaccagat tttttgactt 420
gggggtttnc ttgggacttt tcaaccgacc ctanagagtt nagagcaaan aggttggttt 480
ttcggcttcc ttaacgaaag ttttgg 506

<210> 50
<211> 419
<212> DNA
<213> Homo sapiens

<220>

<221> Misc feature
<222> (137)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (221)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (259)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (327)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (385)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (389)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (416)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (418)
<223> N is any nucleic acid

<400> 50
tttaagcacc aaaacttggtg ttttaatgat gttggatgga aatctttcct aaatgtgtca 60
tgcatgctct tgtctccctt aatggagaga gtgtgacact gcttagcact tggatggctt 120
ggggtggtgg ttatgancag cagtctgtca cagctcagcg aggtgaagcc tgtgggctt 180
ttgctctgtg ctgaatggct cagtggccct acaaagcgga ntcagctctt ggtggctttc 240
tggtgtggtg ggctgctgnt gctgctgctg ctgctgctgc tgctgccctt gcctctaaaa 300
gaactcactt cctcttcctc ctgctgncac ctgtcttttg gcttgtggga ttggagtcac 360
ggggcccaga tggagccttg ctccntgant tatgatagga cctcgggtct cttttntnc 419

<210> 51
<211> 495
<212> DNA
<213> Saccharomyces cerevisiae

<220>

<221> Misc feature
<222> (177)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (322)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (328)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (342)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (368)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (371)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (375)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (380)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (386)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (396)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (404)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (423)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (426)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (436)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (443)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (456)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (460)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (467)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (468)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (471)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (474)

<223> N is any nucleic acid

<400> 51

aattcggcac gagcaaagtt ctgcgctcca ttgtgggcat caaacgacac gtcaaagccc 60

tccatctggg ggacacagtg gactctgata agttcaagcg ggaggaggat ttctactaca 120

cagaggtgca gctgaaggag gaatctgctg ctgctgctgc tgctgctgcc gcagacnccc 180

agtccctggg actccacact ccgagccagc tcccaccccc agcatgactg gcctgcctct 240

gtctgctctt ccaccacctc ttgcacaaag cccagtcctc cggcccagaa catcctgggc 300

ccggagttcc ttccttgcc ttaggggntt ttcagcaagt tnagttcctt gggtcctttt 360

tgggaaantt naggtagttn aaggantacc aggttnttgc catnctttcc agatccaagt 420

ttnacnaaaa atttttnaaca gtntaaattg gggttnttgn cccttttngg nggntgtttt 480

ttttttcggg tcggg 495

<210> 52
<211> 81
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<220>
<221> Misc_feature
<222> (65)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (67)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (71)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (75)
<223> N is any nucleic acid

<400> 52
ggcacgcagg agcagagcag cagcagcaga gagagcagca gcagcagcag cagcagcaga 60
gagananata natanatata t 81

<210> 53
<211> 305
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (11)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (62)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (81)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (256)
<223> N is any nucleic acid

<220>

<221> Misc_feature
<222> (289)
<223> N is any nucleic acid

<400> 53
aggcacttga nttgaaaatg gaaaacccta ctgctggtgg tgctgcggtg atgaggccta 60
tnatgcagcc ccagggtttt nttaatgctc aaatggctgc ccaacgcagc agagagctgc 120
taagtcatca cttccgacaa cagagggtgg ctataatgat gcagcagcag cagcagcagc 180
aacagcagca gcagcagcag cagcagcagc aacagcaaca gcaacagcaa cagcagcaac 240
agcagcaaac ccaggncctc agcccacctc ctaatgtgac tgcttccnc agcatggatg 300
ggctt 305

<210> 54
<211> 307
<212> DNA
<213> Hepatitis C virus

<220>
<221> Misc_feature
<222> (212)
<223> N is any nucleic acid

<400> 54
tggggtgtga agctccggtg ctggtgcggc gggggactgc ggggccagcc tcagtttaaa 60
ccccctcagc agtctttctg tcgttgccct ccacactgcg agactctgga gggcgatctg 120
gaggtctgga agataaccga ttcttgggag atttgggggt agtctccaat ctgtccctgg 180
ctcatcttgt gaccogaagc cggcggcctt gncaggagta ttctagaatg agtgacata 240
aaaatacctt caaacggtag cagcagcagc agcagcagca gcagcaagca gcagcagcag 300
cagcagc 307

<210> 55
<211> 88
<212> DNA
<213> Unknown

<220>
<221> Misc_feature
<222> (6)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (7)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (78)

gagggaaaaa aaaaaccggc agccactgct gaatgttggg ttcggaggct gcatccgact 180

cggtcacaag gaaaatggat tcagtttgca tctctccctc ctttaaacag cttctccggg 240
tctcagcatg ggcttccagg gcagcgattg aggagacntt accaaggngc accacacant 300
agatgctgag acntcgtgac tccaggataa gaaacattaa cngggg 346

<210> 57
<211> 496
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<220>
<221> Misc_feature
<222> (11)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (78)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (195)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (197)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (286)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (291)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (293)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (315)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (328)
<223> N is any nucleic acid

<220>

<221> Misc_feature
<222> (329)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (344)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (346)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (352)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (354)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (358)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (366)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (399)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (406)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (410)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (418)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (420)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (435)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (443)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (453)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (454)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (459)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (471)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (473)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (474)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (481)

<223> N is any nucleic acid

<400> 57

gaattcggca naggtgcaca gatgtggtgg atggggaggg ccgcacggga cagaagttct 60

ccctgtgtat tctgacgnct gagaaaggag catttcatcc gggcggagac caaggagatc 120

gtcaatgggt ggctgggat gctcatggtc tatccccgga ccaacaagca gaatcagaag 180

aagaaacgga aagtgnagc cccccacacc acaggagcct gggactgcc aagttgggctg 240

ttaccagcag cagcagcagc agcagcagca gcagcagcat ccccantgct ntnggaaagt 300

tcccaccacc aagtncaca atttgggna aaaccaaggt tgtgnagac gngntttngg 360

gatttnggca ttgtgggttg cttgcatgga aggacattng gttgtnggtn ctttggangn 420

tacaattacc atttncggtt gtnaaggta aanntccgnc attcagaagg nttnaagggtg 480

ntttgaagtc catttg 496

<210> 58
<211> 268
<212> DNA
<213> Drosophila sp.

<220>
<221> Misc_feature
<222> (16)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (51)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (60)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (202)
<223> N is any nucleic acid

<400> 58
aacacttatc cttganagct ctgtttggga agcaggacaa agctacatgt naggaaactn 60
tggagcctcc gcagactctc caccagcagc agcagcagca gcagcagcag caagagaagc 120
ttccaattag gcaggggggtt gtaogctccc tgtcctatga ggaaccaga agacactcac 180
ccccattga gaagcagctc tntccagcca ttcagaaact catggtcagg agcgagacc 240
tccaccatt gtcagagctg cctgaaaa 268

<210> 59
<211> 471
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (249)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (386)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (449)
<223> N is any nucleic acid

<400> 59
tcgaccacg cgtccgctga ggaacagacg ttccctggcg gccctggcgc cttcaaacc 60

agacatgctg ctgctgctgc tgctgctgcc cctgctctgg gggacaaagg ggatggaggg 120
agacagacaa tatggggatg gttacttgct gcaagtgcag gagctggtga cgggtgcagga 180
gggcctgtgt gtccatgtgc cctgctcctt ctctacccc caggatggct ggactgactc 240
tgaccagnt catggctact ggttccgggc aggagacaga ccataccaag acgctccagt 300
ggccacaaac aaccagaca gagaagtga ggcagagacc cagggcgat tocaactcct 360
tggggacatt tggagcaacg actgcncct gagcatcaga gacgccagga agagggataa 420
ggggtcatat ttctttcggc tagagagang aagcatgaaa tggagttaca a 471

<210> 60
<211> 379
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<220>
<221> Misc_feature
<222> (2)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (14)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (31)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (135)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (315)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (332)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (349)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (357)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (374)

<223> N is any nucleic acid

<400> 60

anttcggcan aggnaaggga gaggggtgacc ngcatcccaa ctagatttca gtggagtga 60
gttcaggagg catggagctg acaaccatga ggcctcggca gccaccgcca ccaccgcgc 120
cgccaccacc gtagnacga gcagcagcag cagcagcagc aagagttaac tctgacttag 180
ggaatagaga cagccagaga gaaatgtgat caatgaagga gacatctgga gtgtgcgtgc 240
ttcttcagag gggacgggtg atgggcagat ttggaaaaag caccgcagat tgggaacctt 300
atcttttctt tttcntaaaa ttgttggtat gnaaatttgg gttttccng taacttntta 360
aaaacttaaa agtnggttt 379

<210> 61

<211> 255

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism:Unknown

<220>

<221> Misc_feature

<222> (121)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (183)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (254)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (255)

<223> N is any nucleic acid

<400> 61

aattccgaca atggaaagca ctcttagcct tgcagtggtc tacattttta aggaaccaat 60
atttcagcat tctttattac ccggcacgct gtgtcctttg tcagagttca agtttatggt 120
nactgccagg gtcagacagt ccatttgctg ctgctgctgc tgctgctgct ttctcgaact 180
ggnatggcat tagggaagct gctgtctgag tgttagggaa tgtcttggct aagtaaagcc 240
aatgttcttt cctnn 255

<210> 62
<211> 5289
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<400> 62
cgagctctcc cagccgcagc ctccgaatcc acggcctcca ccccgcgct ctccagcgct 60
ctatcccgtc gctgcgcct tgcgcggc cccggcgct gcatccgct ccgcacaggc 120
tccttgctgg gcacaaatag ctccaccatg gggctggcct ggggactcgg tgcctgctc 180
ctgttgcatg cctgcggctc caaccgcatt ccagagtctg ggggagacaa cagtgtgttt 240
gacatctttg aactcaccgg agctgcccgc aagcggctctg ggcgcgact ggtgaagggc 300
cctgaccctt ctagcccagc tttccgcata gaggatgcca acctgatccc cctgtgcct 360
gacaagaagt tccaagacct agtggatgct gtgcgggcgg agaaagggtt cctcctcctg 420
gcctccctga ggcaaatgaa gaagaccgg ggtaccctgc tggctgtgga gcgaaagac 480
cactctggcc aggtcttcag cgtgatctcc aatggcaagg cgggcacct ggacctgagc 540
ctgaccgtgc aggggaagca gcatgtggtg tgggtggaag aagcactcct ggcgactggc 600
cagtggaaga gcatcacct gtttgtcag gaggacagg cccagctgta catcgactgt 660
gagaagatgg agaatgcgga gctggatgct cccatccaga gcatcttcac cagggacctg 720
gccagcatcg ccaggctccg cattgccaaa ggaggtgtca acgacaattt ccagggggtg 780
ctgcagaatg taaggtttgt ctttgaacc acaccagaag acatcctcag gaacaaaggc 840
tgctccagct ctaccagtgt ctttgtcacc cttgacaaca acgtggtgaa tgggtccagc 900
cctgccatcc gcaccgacta cattggccac aagacaaagg acctgcaagc catctgtggc 960
atctcatgtg acgagctgtc cagcatggc ctggagctca ggggtctacg caccatcgtg 1020
accacgtgc aggacagtat ccgcaaagt accgaagaga acaaagagct ggccaacgag 1080
ctgaggaggg cccactctg ctaccacaac ggagtgcagt acaggactgg cgacgagtgg 1140
acggtggaca gctgcactga gtgtcgtgc cagaactcag ttaccatctg caaaaaagtg 1200
tcctgtccca tcatgccctg ctccaatgcc acagttccgg atggagaatg ctgcccacgg 1260
tgctggccca gcgactctgc agacgatggc tgggtcccgt ggtctgagtg gacctcttgc 1320
tctgtgacct gtggcaatgg aatccagcag cgtggcgcct cctgcgacag cctcaacaac 1380
agatgcgagg gtcctctgt gcagacgcgg acctgccaca tccaggagtg tgacaagaga 1440
tttaaacagg atggcggctg gagccactgg tcccattggt catcttgctc cgtaacatgt 1500

ggagacggtg tgatcacaag gatccggctc tgcaactccc ccagccccc gatgaatggg 1560
aagccatgtg agggcaaagc ccgggagacc aaagcctgcc agaaagactc ctgccccatc 1620
aatggaggct ggggacctg gtcacccatgg gacatctgtt ctgtcacctg tggaggaggg 1680
gtacagaaac gtagccggct ctgcaacaac cccaaacccc agtttgagg caaggactgc 1740
gttgggtgatg tgacagaaaa ccagatctgc aacaagcagg actgtcccat tgacggatgc 1800
ctgtccaatc cctgctttgc tgggtgccag tgtaccagct accctgatgg cagctggaag 1860
tgtgggtgcct gtcccccagg ctatagtga gatggagtgc agtgcaaaga cgttgatgag 1920
tgcaaagaag tccctgatgc ctgcttcaac cacaatggag agcacagggtg tgagaacaca 1980
gaccccggtc acaactgcct gccctgccc cgcgcgttca ctggctcgca gccctttggc 2040
cggggcggtg aacatgccac cgccaacaag caggatatga agccccgaa cccctgcaca 2100
gacgggacac acgactgcaa caagaacgcc aagtgcaact acctgggcca ctacagcgac 2160
cccatgtacc gctgcgagt gcaagcctggc tacgccggca acggcatcat ctgcggggag 2220
gacacagacc tggacggctg gcccaatgag gacctgctgt gcgtggccaa cgcaacttac 2280
cactgcagaa aggataattg ccccaacctt cccaactcag ggcaggaaga ctatgacaag 2340
gatggaatcg gcgatgcctg cgatgatgac gatgacaatg ataagattcc agatgacagg 2400
gacaactgtc cattccatta caaccagcc cagtacgact atgacagaga tgactggga 2460
gaccgctgtg acaactgccc ctacaaccac aaccagacc aggtgacac agataacaat 2520
ggggaaggag acgcctgtgc agctgacatt gatggggaca gtatcctcaa tgaacgggac 2580
aactgccagt atgtctacaa tgtggaccag aaagacactg acatggacgg ggttggatgat 2640
cagtgtgaca actgccccct ggaacacaat ccagaccagc tcgactctga ctcgaccgc 2700
attggagaca cctgtgacaa caatcaggat attgatgaag acggccacca gaacaatctg 2760
gacaactgtc cctacgtgcc caacgccaac caggctgacc atgacaagga tggcaaaggc 2820
gatgcctgtg accatgatga cgacaatgat ggcattcctg atgaccgga caactgcagg 2880
ctggtgccc atcctgacca gaaggactct gatgggtgat gtcgaggtga tgcttgcaaa 2940
gatgattttg accaggacaa ggtgccagac attgatgaca tctgtcccga aaatgttgat 3000
atcagtgaga ctgatttccg ccgattccag atgattcctc tagatcccaa agggacatcc 3060
cagaatgacc ctaactgggt tgtacgccat cagggtaaag aactcgtcca gactgtcaac 3120
tgtgaccctg gacttgcctg aggttatgac gaatttaacg ccgtggactt cagtggcacc 3180
ttcttcatca acaccgagag ggatgacgac tatgccggct ttgtgtttgg ctaccagtcc 3240
agcagccgct tctatgttgt gatgtggaag caagtcactc agtcctactg ggacaccaac 3300
cccacgaggg ctacggggta ctctggactt tccgtgaagg ttgtaaactc caccacgggg 3360

cctggcgagc acctgcggaa tgccctgtgg cacacaggaa acacctctgg ccagggtgcg 3420
acactgtggc atgaccctcg tcacattggc tggaaagatt tcaactgccta cagatggcat 3480
ctgagccaca ggccaaagac aggtttcatc agagtggtaa tgtatgaagg gaagaaaatc 3540
atggctgact caggacccat ctatgacaaa acctatgctg gtgggaggct aggcttgctc 3600
gtcttctctc aagaaatggg gttcttctcc gacctgaaat atgaatgcag agactcctaa 3660
tcatcaaact gttgatcaaa agactgatca taaaccaatg ctgggtattgc accttctgga 3720
accatgggct tagaaaaccc ccaggatcgc gcctcgtgc ctgcctttgc tctctgcttg 3780
catgagtgtg gactcctaga acatgtgact tgccctcaaga aaatgcaatt ttccaaatca 3840
gaccctgcat tcagcctctg actgagaaga atcttccaag gagacaaaca atgactttgg 3900
ttggcttttg caaaagcaaa agcatccaca tgctttgggt ggaagggtgcc tgtcccactc 3960
tgcttttgct agagcagaat gcgactgtga ggccagctct gagcagtgga ctccaaaatg 4020
ttttcaggca tgtgagagaa gggaggactc actagaattg acaaacaaaa ccagccctga 4080
cctactccct ctggaatggg ggcggtggg ggggccaaag cccaaagggg aggatgcata 4140
cccaagagat gattgtatga agaaaatatg gaggaactgt tacatttttg gtactaaatc 4200
attttcaggg gattgaaaga ctattgctgg atttcatgat gctgaccggt gttagctgat 4260
taaccacat aaataggcac ttaaatagga gcagggaagg aaggaaaaga ctggcttctg 4320
gacttctcc cagattttcca ccccttaaca catcacctgt agtgaccaga acagggagtc 4380
ggagttaaac cgacacaagg cagggccagc tgctgcagct tggttctatt gaaattgtca 4440
gttgatttcc agatgtagct tctgcagatg tagcagcaaa ataagaatac ccaccatctc 4500
agcgagcacc aggctgtctc ccaagggacg gcagccatgc ttgtattttt atggttagaa 4560
aggcacaaaa ttatcaacta agacattcct tctttctctt tttttcctga acatcatgga 4620
gttttccagt tgtctctttt ggactgtagt ttttagtggt ttaaacaac actttacaat 4680
gtaaactatt ttttttttac ttattctggg ggatctgtct gaaagactat tcatggaaca 4740
ggaagaagcg taaggactat ccatatcatc ttgtctacaa gtcattatga ctgtaagatt 4800
gtaaatacag attattttatt aactctgttc tacctggaat ctagtttcat atggaaagtg 4860
tttgagagca ggtagttgag atcgatcagc aaatctttca caggaaatggc acaaggaaac 4920
cagcatagca agctgctctt caccttgctg ttagactgga tgatttgga ttcttttttc 4980
cttttttttc ccaagtggaa ttacttggtt gtccatttgc aagtgtttt agtttgcaaa 5040
gaaagccaag aggccattaa tactgtctta tccatccct tgtgcctatt tccagggaga 5100
tgaaaagcat ctacatttat ttttttgcc tttttccaaa agaaaaaaat gacaaaggtg 5160
aaacttgat acaaatatta cctcatttgt tgtgtgactg agtaaagaat tttgggatca 5220

aacagaaaga gttaaagtgt ctaacaaact taaagctact gtagtaccta aaaaaaaaaa 5280
aaaaaaaaa 5289

<210> 63
<211> 2053
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<400> 63
gaattccggc ggccgctgag agcccaccct ggcgagctct cccagccgca gcctccgaat 60
ccacggcctc caccgccg cctctccagcg ctctatcccg tcgctgcgcc cttgtcgccg 120
gccccggcgc tgcattccg cccgcacagg ctcttgact gggcacaat agctccacca 180
tggtgctggc ctggggactc ggtgtcctgc tctgttgca tgctgcggc tccaaccgca 240
ttccagagtc tgggggagac aacagtgtgt ttgacatctt tgaactcacc ggagctgccc 300
gcaacggtac tggggcgcca ctggtgaagg gccctgacct ttctagccca gctttccgca 360
tcgaggatgc caacctgatc cccctgtgc ctgacaagaa gttccaagac ctagtggatg 420
ctgtgcgggc ggagaaagg ttctctctcc tggcctccct gaggcaaatg aagaagacct 480
gggtaccct gctggctgtg gagcgaaag accactctgg ccaggtcttc agcgtgatct 540
ccaatggcaa ggcgggcacc ctggacctga gcctgacct gcaggggaag cagcatgtgg 600
tgtcggtgga agaagcactc ctggcgactg gccagtggaa gagcatcacc ctgtttgtgc 660
aggaggacag ggcccagctg tacatcgact gtgagaagat ggagaatgag gagctggatg 720
tccccatcca gagcatcttc accagggacc tggccagcat cggcaggctc cgcattgcca 780
aaggaggtgt caacgacaat ttccaggggg tctgcagaa tgtaaggttt gtctttggaa 840
ccacaccaga agacatctc aggaacaaag gctgtccag ctctaccagt gtctttgtca 900
cccttgacaa caacgtggtg aatgggtcca gccctgccat ccgcaccgac tacattggcc 960
acaagacaaa ggacctgcaa gccatctgtg gcattctatg tgacgagctg tccagcatgg 1020
tctggagct caggggtcta cgcaccatcg tgaccacgct gcaggacagt atccgcaaag 1080
tgaccgaaga gaacaaagag ctggccaacg agctgaggag gccccactc tgctaccaca 1140
acggagtgca gtacaggact ggcgacgagt ggacggtgga cagctgcact gagtgtcgct 1200
gccagaactc agttaccatc tgcaaaaaag tgcctgtcc catcatgcc tgcaccaatg 1260
ccacagttcc ggatggagaa tgctgccac ggtgctggcc cagcgactct gcagacgacg 1320
gctggtcccc gtggtctgag tggacctctt gctctgtgac ctgtggcaat ggaatccagc 1380
agctggccgc tctgcgaca gcctcaacaa cagatgcgag ggctcctctg tgcagacgag 1440

gacctgccac atccaggagt gtgacaagag atttaaacag gatggcggct ggagccactg 1500
 gtcccatg tcatcttgct ccgtaacatg tggagacggt gtgatcaciaa ggatccggct 1560
 ctgcaactcc ccagcccc agatgaatgg gaagccatgt gagggcaaag cccgggagac 1620
 caaagcctgc cagaaagact cctgccccat caatggaggc tggggacctt ggtcaccatg 1680
 ggacatctgt tctgtcacct gtggaggagg ggtacagaaa cgtagccggc tctgcaacia 1740
 cccacaccc cagtttgag gcaaggactg cattggtgat gtgacagaaa accagatctg 1800
 caacaagcag gactgtccca ttgacggatg cctgtccaat cctgtcttg ctggtgtcca 1860
 gtgtaccagc taccctgatg gcagctggaa gtgtggtgcc tgtccccag gctatagtgg 1920
 agatggagtc gagtgcagaa acgttgatga gtgcaagaa gtccctgatg cctgttcaa 1980
 ccacaatgga gagcacagg gtgagaacac agaccocggc tacaactgcc tgccctgcc 2040
 accgcccga att 2053

<210> 64
 <211> 4339
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown Organism:Unknown

<400> 64
 agccactgcc tggagtcagc cagcctcatc ggaacttctgc aggcaatgc gaagctgcta 60
 tccagttctg ccacggtctc tcccggcgca ccggcagttc cagcgtcttc accggactca 120
 gcgtccttgt ccttcacttc accttgcca cctctccggg ttactgagcc ccggtgcaca 180
 caggctccgt gttgggcaca aaggctccac catggagctc ctgcggggac taggtgtcct 240
 gttcctgttg catatgtgtg gaagcaaccg cattccagag tctgggggag ataacggtgt 300
 gtttgacatc tttgaactca ttggaggtgc acgaagggc cccggtcgcc gactggtgaa 360
 gggccaagat ctatccagcc ccgccttcg cattgagaat gccaacctga tccccgtgt 420
 gccggatgac aagttccaag acctactgga cgctgtgtgg gccgacaaag gcttcatctt 480
 cttggcttcc ttgaggcaga tgaagaagac ccggggcaca ctctggctg tggaacggaa 540
 agacaacact ggccagatct tcaagtgtgt ctccaacggc aaagctggca ccctggacct 600
 gagcctgagc ctgccaggga agcaacaagt ggtgtcagtg gaggaagctc tctggccac 660
 tggccagtgg aagagcatca cgctgtttgt tcaagaggac cgggctcaac tctacataga 720
 ctgtgataag atggagagcg cggagctgga tgtaccatc cagagcatct tcaccaggga 780
 tctggccagc gttgccaggc tccgagttgc aaaggagat gtcaatgaca attttcaggg 840
 ggtgtgcag aatgtgaggt ttgtctttgg aaccaccca gaagacattc tcaggaacia 900

aggctgctcc agctctacca acgtccttct tacccttgac aacaacgtgg tgaacggttc 960
cagccctgct atccgcacca actacatcgg ccacaaaaca aaggacctcc aagctatctg 1020
tggcctctcc tgtgatgaac tatccagcat ggtcctggaa ctgaagggcc tgcgcaccat 1080
cgtgaccact ctgcaggaca gcatccgaaa agtgacggaa gagaacagag agctggtcag 1140
tgagctgaag cggcctcccc tctgctttca caatggagtc cagtacaaga acaacgagga 1200
gtggactgta gacagttgca cagagtgtca ctgccagaac tcggttacca tctgcaaaaa 1260
gggtgtcctgt cccatcatgc cctgctccaa cgccacagtt cctgatggtg aatgctgccc 1320
acgggtgctgg cccagcgact ctgctgacga tggctggtct ccctgggtctg agtggacctc 1380
ctgctctgcc acatgtggca atggaattca gcaacgtggt cgttcctgtg acagcctcaa 1440
caacagatgc gagggctctt cggtaacagac gaggacctgc cacattcagg agtgtgacaa 1500
aagatttaaa caggatgggtg gctggagtca ctgggtctcca tggctgtcct gttctgtgac 1560
ctgtggtgac ggtgtgatca caaggatccg tctctgcaac tccccagcc cccagatgaa 1620
cgggaagccc tgtgaagggtg aagcccggga gaccaaagcc tgcaagaaag acgcctgccc 1680
aattaatgga ggctggggtc cctgggtcacc atgggacatc tgctctgtca cctgtggagg 1740
aggagtgcag agacgcagcc gactctgtaa caaccccaca cccagtttg gaggcaaaga 1800
ctgtgttggc gatgtgacag aaaatcaagt ttgcaacaag caggactgcc caattgatgg 1860
atgcctgtcc aatccctgct ttgctgggtc caagtgtact agctacctg atggtagctg 1920
gaaatgtggt gcgtgtcctc ctggctacag tggaaatggc atccagtgc aagacgtcga 1980
tgagtgcaaa gaagtgcctg atgcttgctt caatcacaac ggagaacatc ggtgcaagaa 2040
cacagatcct ggctacaact gcctgccctg cccaccacga ttactggct cacagccctt 2100
cggccgaggt gtcgaacatg ccatggccaa caaacagggtg tgcaaacgc gaaaccctg 2160
cacggacggg acgcatgact gcaacaagaa cgctaagtgc aactacctg gtcactacag 2220
cgaccccatg taccgctgtg agtgcaagcc cggctatgca ggcaatggca tcatctgagg 2280
agaggacaca gacctggacg gctggcctaa tgaaaacctg gtgtgtgtgg ccaacgcaac 2340
ctaccactgc aaaaaggaca actgccccaa ccttcccaac tcggggcagg aagactatga 2400
caaggacggg attggcgatg cctgcgatga tgacgatgac aacgacaaga tccctgatga 2460
cagggacaac tgtccattcc attacaaccc agcccagtat gactatgaca gagatgatgt 2520
gggagaccgc tgtgacaact gccctacaa ccacaaccct gaccaagcag acacagacaa 2580
aaacggggag ggcgatgcct gtgctgtgga catcgatgga gatggaatcc tcaatgaacg 2640
agacaactgc cagtacgttt acaacgtgga ccagagggac acggacatgg atggggttgg 2700
agatcagtgt gacaactgcc ccctggaaca caatccagac cagctggact ctgactcaga 2760

cctcataggg gacacttggtg acaacaatca ggacatcgat gaggatggcc atcagaacaa 2820
cctggacaac tgtccctatg tgcctaacgc caaccaggcc gaccatgata aagatggcaa 2880
aggagatgcc tgtgaccatg acgatgacaa tgacggcatc cctgatgaca gagacaactg 2940
caggctggtg cccaatcctg accagaagga ctctgatggt gatggccgag gtgacgcctg 3000
caaagacgac tttgaccatg acaatgtgcc agatattgat gacatctgtc ctgagaattt 3060
tgacatcagt gaaaccgatt tccgacgatt ccagatgatt cctctagatc ccaaaggaac 3120
ctcccaaaat gaccctaact gggttgtccg ccatcagggc aaagaactcg tccagactgt 3180
aaactgtgac cctggacttg ctgtaggtta tgatgagttt aatgctgtgg acttcagcgg 3240
taccttcttc atcaacaccg agagagatga tgactacgct ggcttggtat tcggctacca 3300
gtccagcagc cgcttctacg ttgtgatgtg gaaacaagtc acccagtcct actgggacac 3360
caaccccaca agggctcagg gatactcagg cctgtctgta aaggttgtga actccaccac 3420
cggccctggc gagcacctgc ggaatgcact gtggcacaca ggaaacaccc ctggccaggt 3480
gcgcaccctg tggcatgacc ctcgccacat cggctggaaa gatttcactg cgtacagatg 3540
gcgtctcagc cacaggccaa agaccggtta tatcagagtgt gtgatgtatg aaggaaagaa 3600
aatcatggct gactcgggac ccatctatga caaaacctac gccggcggta gactaggcct 3660
gttcgtcttc tctcaggaaa tgggtgttctt ctgagacatg aaatacagat gtccagattc 3720
ctaatacatca gctgccaatc ataaccagcg ctggcaatgc accttctaaa aacaagggct 3780
agagaaaccc cccaccctg ccgggatcgc ctttcctcgc ctcccttgcc tctcttcttg 3840
catagtgtgg acttgtaaag cctgagacct gcctcaagaa aatgcagttt tcgaaccag 3900
agtcagcact cggcctttta cgaatgagaa tgcattctcc aagaccatga agagttcctt 3960
gggtttgctt ttgggaaagc caaagcgcct atttacttcc cactaggaag gtgcccgcctc 4020
cactctgcct tactcacaga gccagaactt cttcgaggcc acctctgagc agcacacaca 4080
gaagcatttt caggcatgtc aaagaaagga aaaatgactc actagaactc accgccaac 4140
aacctctgac ataggtcctg agatgtgggg aggcaggagc caaagctcta gggagggcat 4200
gtaccaaga gatgactgta tgaagaaaat gtggaggagc tgttcggtac taaatcattt 4260
tcaggggaca gacagacttg ctgcatttcc gcatgctgct ggtgagagct gattgacca 4320
atcttcaca caggcactt 4339

<210> 65
<211> 186
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism:Unknown

<400> 65

gcacagtttaa tggaggctgg ggtccctggt caccatggga catctgctct gtcacctgtg 60
gaggaggagt gcagagacgc agccgactct gtaacaaccc cacaccccag tttggaggca 120
aagactgtgt tggcgatgtg acagaaaatc aagtttgcaa caagcaggac tgcccaattg 180
gtaagc 186

<210> 66

<211> 5774

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism:Unknown

<400> 66

gtcacttttg ttgatagcag ccgctctggt agaggttagg acttcagctg atggacaagc 60
tggtaatgaa gaaatggtgc aaatagattt accaataaag agatatagag agtatgagct 120
ggtgactcca gtcagcacia atctagaagg acgctatctc tcccatactc tttctgcgag 180
tcacaaaaag aggtcagcga gggacgtgtc ttccaacct gagcagttgt tctttaacat 240
cacggcattt ggaaaagatt ttcactctcg actaaagccc aacactcaac tagtagctcc 300
tggggctggt gtggagtggc atgagacatc tctggtgctt gggaatataa ccgatcccat 360
taacaaccat caaccaggaa gtgctacgta tagaatccgg aaaacagagc ctttgagac 420
taactgtgct tatgttggtg acatcgtgga cattccagga acctctgttg ccatcagcaa 480
ctgtgatggt ctggctggaa tgataaaaag tgataatgaa gagtatttca ttgaaccctt 540
ggaaagaggt aaacagatgg aggaagaaaa aggaaggatt catgttgtct acaagagatc 600
agctgtagaa caggctccca tagacatgtc caaagacttc cactacagag agtcggacct 660
ggaaggcctt gatgatctag gtactgttta tggcaacatc caccagcagc tgaatgaaac 720
aatgagacgc cgcagacacg cgggagaaaa cgattacaat atogaggtag tgctgggagt 780
ggatgactct gtggtccgtt tccatggcaa agagcacgtc caaaactacc tcttgacctt 840
aatgaacatt gtgaatgaaa tttaccatga tgagtccctc ggagtgcata taaatgtggt 900
cctggtgctc atgataatgc tgggatatgc aaagtccatc agcctcatag aaaggggaaa 960
cccatccaga agcttgagaa atgtgtgtcg ctgggcgtcc caacagcaaa gatctgatct 1020
caaccactct gaacaccatg accatgcaat ttttttaacc aggcaagact ttggacctgc 1080
tggaatgcaa ggatagtctc cagtcaccgg catgtgtcat ccagtgagaa gttgtaccct 1140
gaatcatgag gatggttttt catctgcttt ttagtagacc catgaaacgg gccatgtggt 1200

gggaatggag catgatggac aaggcaacag gtgtggtgat gagactgcta tgggaagtgt 1260
catggctccc ttggtacaag cagcattcca tcgttaccac tgggtccgat gcagtgggtca 1320
agaactgaaa agatatatcc attcctatga ctgtctcctt gatgaccctt ttgatcatga 1380
ttggcctaaa ctcccagaac ttcttgaat caattattct atggatgagc aatgtcgttt 1440
tgatttttgt gttggctata aaatgtgcac cgcgttccga acctttgacc catgtaaaca 1500
gctgtggtgt agccatcctg ataatcccta cttttgtaag actaaaaagg gacctccact 1560
tgatgggact gaatgtgctg ctggaaaatg gtgctataag ggtcattgca tgtggaagaa 1620
tgctaatacag caaaaacaag atggcaattg ggggtcatgg actaaatttg gctcctgttc 1680
tcggacatgt ggaactggtg ttcgtttcag aacacgccag tgcaataatc ccatgcccac 1740
caatggttgt caggattgtc ctggtgttaa ttttgagtac cagctttgta acacagaaga 1800
atgccaaaaa cactttgagg acttcagagc acagcagtg cagcagcgaa actccactt 1860
tgaataccag aataccaaac accactggtt gccatatgaa catcctgacc ccaagaaaag 1920
atgccacctt tactgtcagt ccaaggagac tggagatgtt gcttacctga aacaactggt 1980
gcatgatgga acgcactgtt cttacaaaga tccatatagc atatgtgtgc gaggagagtg 2040
tgtgaaagtg ggctgtgata aagaaattgg ttctaataag gttgaggata agtgtggtgt 2100
ctgtggagga gataattccc actgccgaac cgtgaagggg acattttacca gaactcccag 2160
gaagcttggg taccttaaga tgtttgatat acccctggg gctagacatg tgttaatcca 2220
agaagacgag gcttctctc atattcttgc tattaagaac caggctacag gccattatat 2280
tttaaattgg aaaggggagg aagccaagtc gcggacctc atagatcttg gtgtggagtg 2340
ggattataac attgaagatg acattgaaag tcttcacacc gatggacctt tacatgatcc 2400
tgttattggt ttgattatac ctcaagaaaa tgataccgc tctagcctga catataagta 2460
catcatccat gaagactctg tacctacaat caacagcaac aatgtcatcc aggaagaatt 2520
agatactttt gagtgggctt tgaagagctg gtctcaggtt tccaaaccct gtggtggagg 2580
tttccagtac actaaatatg gatgccgtag gaaaagtgat aataaaatgg tccatcgag 2640
cttctgtgag gccacaaaa agccgaaacc tattagacga atgtgcaata ttcaagagtg 2700
tacacatcca ctctgggtag cagaagaatg ggaacactgc accaaaacct gtggaagttc 2760
tggctatcag cttgcactg tacgtgcct tcagccactc cttgatggca ccaaccgctc 2820
tgtgcacagc aaatactgca tgggtgaccg tcccagagac gcccgccct gtaacagagt 2880
gccctgccct gcacagtgga aaacaggacc ctggagtgag tgttcagtga cctgcggtga 2940
aggaacggag gtgaggcagg tcctctgcag ggctggggac cactgtgatg gtgaaaagcc 3000
tgagtcggtc agagcctgtc aactgcctcc ttgtaatgat gaacctgtt tgggagacaa 3060

gtccatattc	tgtcaaattg	aagtgttggc	acgatactgc	tcataaccag	gttataacaa	3120
gttatgttgt	gagtcctgca	gcaagcgcag	tagcaccctg	ccaccaccat	accttctaga	3180
agctgctgaa	actcatgatg	atgtcatctc	taaccctagt	gacctcccta	gatctctagt	3240
gatgcctaca	tcttttggtc	cttatcattc	agagaccctc	gcaaagaaga	tgtctttgag	3300
tagcatctct	tcagtgggag	gtccaaatgc	atatgctgct	ttcaggccaa	acagtaaacc	3360
tgatggtgct	aatttacgcc	agaggagtgc	tcagcaagca	ggaagtaaga	ctgtgagact	3420
ggtcaccgta	ccatcctccc	caccaccaa	gagggtccac	ctcagttcag	cttcacaaat	3480
ggctgctgct	tccttctttg	cagccagtga	ttcaataggt	gcttcttctc	aggcaagaac	3540
ctcaaagaaa	gatggaaaga	tcattgacaa	cagacgtccg	acaagatcat	ccaccttaga	3600
aagatgagaa	agtgaaccaa	aaaggctaga	aaccagagga	aaacctggac	aacctctctc	3660
ttcccatggg	gcatatgctt	gtttaaagtg	gaaatctcta	tagatcgta	gctcatttta	3720
tctgtaattg	gaagaacaga	aagtgttggc	tcactttcta	gttgctttca	tcctcctttt	3780
gttctgcatt	gactcattta	ccagaattca	ttggaagaaa	tcaccaaaga	ttattacaaa	3840
agaaaaatat	gttgctaaga	ttgtgttggg	cgctctctga	agcagaaaag	ggactggaac	3900
caattgtgca	tatcagctga	ctttttgttt	gttttagaaa	agttacagta	aaaattaaaa	3960
agagatacca	atgggtttaca	ctttaacaag	aaattttgga	tatggaacaa	agaattctta	4020
gacttgtatt	cctatttatc	tatattagaa	atattgtatg	agcaaatttg	cagctgttgt	4080
gtaaatactg	tatattgcaa	aaatcagtat	tattttaaga	gatgtgttct	caaatgattg	4140
tttactatat	tacatttctg	gatgttctag	gtgcctgtcg	ttgagtattg	ccttgtttga	4200
catttctatag	gttaattttc	aaagcagagt	attacaaaag	agaagttaga	attacagcta	4260
ctgacaatat	aaagggtttt	gttgaatcaa	caatgtgata	cgtaaattat	agaaaaagaa	4320
aagaaacaca	aaagctatag	atatacagat	atcagcttac	ctattgcctt	ctatacttat	4380
aatttaaagg	attggtgtct	tagtacactt	gtggtcacag	ggatcaacga	atagtaaata	4440
atgaactcgt	gcaagacaaa	actgaaaccc	tctttccagg	acctcagtag	gcaccgttga	4500
gggtgtccttt	gtttttgtgt	gtgtgtgttc	ttttttaatt	ttcgcattgt	tgacagatac	4560
aaacagttat	actcaatgta	ctgtaataat	cgcaaaggaa	aaagttttgg	gataacttat	4620
ttgtatgttg	gtagctgaga	aaaatatcat	cagtctagaa	ttgatatttg	agtatagtag	4680
agctttgggg	ctttgaaggc	aggttcaaga	aagcatatgt	cgatggttga	gatattttatt	4740
ttocatatgg	ttcatgttca	aatgttcaca	accacaatgc	atctgactgc	aataatgtgc	4800
taataattta	tgtcagtagt	caccttgctc	acagcaaagc	cagaaatgct	ctctccaggg	4860
agtagatgta	aagtacttgt	acatagaatt	cagaactgaa	gatattttatt	aaaagttgat	4920

tttttttttct tgatagtatt tttatgtact aaatatttac actaatatca attacatatt 4980
ttggtaaact agagagacat aattagagat gcatgctttg ttctgtgcat agagaccttt 5040
aagcaaacta ctacagccaa ctcaaaagct aaaactgaac aaatttgatg ttatgcaaac 5100
atcttgcatt tttagtagtt gatattaagt tgatgacttg tttcccttca aggaaacatt 5160
aaattgtatg gactcagcta gctgttcaat gaaattgtga attagaaaca tttttaaaag 5220
tttttgaaag agataagtgc atcatgaatt acatgtacat gagaggagat agtgatatca 5280
gcataatgat tttgaggtca gtacctgagc tgtctaaaaa tatattatac aaactaaaat 5340
gtagatgaat taacctctca aagcacagaa tgtgcaagaa cttttgcatt ttaatcgttg 5400
taaactaaca gcttaaacta ttgactctat acctctaaag aattgctgct actttgtgca 5460
agaactttga aggtcaaatt aggcaaattc cagatagtaa aacaatccct aagccttaag 5520
tctttttttt ttccataaaa ttcccataga ataaaattct ctctagttta cttgtgtgtg 5580
catacatctc atccacaggg gaagataaag atggtcacac aaacagtttc cataaagatg 5640
tacatattca ttatacttct gacctttggg ctttcttttc tactaagcta aaaattcctt 5700
tttatcaaag tgtacactac tgatgctggt tgttgctactg agagcacgta ccaataaaaa 5760
tgtaaacaaa atat 5774

<210> 67
<211> 5535
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<400> 67
ggacttttaga agccgttget gccctctctg tcacctgaag cggggccctc tcccatccca 60
cccttgcccc gcctccctgc cccacccggg ccggccctgc ccgccgccgg accctggcat 120
gtcaagacct ggtccgcgcc tgccctgcca gcccgcgga ccccgcgcc cccgcgagct 180
aggatgaggg gccaggccgc cggcccgggc cccgtctgga tctcgcgcc gctgctactg 240
ctgctgctgc tgctgggacg ccgcgcgcgg gcggccgccg gagcagacgc ggggcccggg 300
cccgagccgt gcgccacgct ggtgcaggga aagttcttcg gctacttctc cgcggccgcc 360
gtgttcccgg ccaacgcctc gcgctgctcc tggacgctac gcaaccgga cccgcggcgc 420
tacactctct acatgaaggt ggccaaggcg cccgtgccct gcagcggccc cggccgcgtg 480
cgcacctacc agttcgactc ctctctcgag tccacgcgca cctacctggg cgtggagagc 540
ttcgacgagg tgctgcggct ctgcgacccc tccgcacccc tggccttctt gcaggccagc 600

aagcagttcc tgcagatgcg gcgccagcag ccgccccage acgacgggct ccggccccgg 660
gccggggccgc cgggccccac cgacgacttc tccgtggagt acctggtggt ggggaaccgc 720
aaccacagcc gtgccgcctg ccagatgctg tgccgctggc tggacgcgtg tctggccggt 780
agtcgcagct cgcaccctg cgggatcatg cagacccctt gcgcctgcct gggcggcgag 840
gcggggcgcc ctgccgcggg acccctggcc ccccgcgggg atgtctgctt gagagatgcg 900
gtggctggtg gccctgaaaa ctgcctcacc agcctgaccc aggaccgggg cgggcacggc 960
gccacaggcg gctggaagct gtggtccctg tggggcgaat gcacgcggga ctgcggggga 1020
ggcctccaga cgcggacgcg cacctgcctg cccgcgccgg gcgtggaggg cggcggctgc 1080
gagggggtgc tggaggaggg tcgccagtgc aaccgcgagg cctgcggccc cgctgggcgc 1140
accagctccc ggagccagtc cctgcggtcc acagatgccc ggcggcgcca ggagctgggg 1200
gacgagctgc agcagtttg gttcccagcc cccagaccg gtgaccacgc agccgaggag 1260
tggtccccgt ggagcgtgtg ctccagcacc tgcggcgagg gctggcagac ccgcacgcgc 1320
ttctgcgtgt cctcctccta cagcacgcag tgcagcggac ccctgcgcca gcagcggctg 1380
tgcaacaact ctgccgtgtg ccagtgcat ggtgcctggg atgagtggtc gccctggagc 1440
ctctgtctca gcacctgtgg ccgtggcttt cgggatcgca cgcgcacctg caggcccccc 1500
cagtttgggg gcaaccctg tgagggccct gagaagcaaa ccaagttctg caacattgcc 1560
ctgtgccctg gccgggcagt ggatggaaac tggaatgagt ggtcgagctg gagcgcctgc 1620
tccgccagct gctcccaggg ccgacagcag cgcacgcgtg aatgcaacgg gccttcctac 1680
gggggtgcgg agtgccaggg ccactgggtg gagacccgag actgcttcct gcagcagtgc 1740
ccagtggatg gcaagtggca ggcctgggcg tcatggggca gttgcagcgt cacgtgtggg 1800
gctggcagcc agcgacggga gcgtgtctgc tctgggccct tcttcggggg agcagcctgc 1860
caggggcccc aggatgagta ccggcagtgc ggcaccacgc ggtgtcccga gccccatgag 1920
atctgtgatg aggacaactt tggtgctgtg atctggaagg agacccacgc gggagagggtg 1980
gctgtgtcc ggtgtccccg caacgccaca ggactcatcc tgcgacggtg tgagctggac 2040
gaggaaggca tcgcctactg ggagcccccc acctacatcc gctgtgtttc cattgactac 2100
agaaacatcc agatgatgac ccgggagcac ctggccaagg ctcagcgagg gctgcctggg 2160
gagggggtct cggagggtcat ccagacactg gtggagatct ctcaggacgg gaccagctac 2220
agtggggacc tgctgtccac catcgatgtc ctgaggaaca tgacagagat tttccggaga 2280
gcgtactaca gccccacccc tggggacgta cagaactttg tccagatcct tagcaacctg 2340
ttggcagagg agaatcggga caagtgggag gaggcccagc tggcggggcc caacgccaaag 2400
gagctgttcc ggctggtgga ggactttgtg gacgtcatcg gcttcgcat gaaggacctg 2460

agggatgcat accaggtgac agacaacctg gttctcagca tccataagct cccagccagc 2520
ggagccactg acatcagctt ccccatgaag ggctggcggg ccacgggtga ctggggccaag 2580
gtgccagagg acagggtcac tgtgtccaag agtgtcttct ccacggggct gacagaggcc 2640
gatgaagcat ccgtgtttgt ggtgggcacc gtgctctaca ggaacctggg cagcttctctg 2700
gccctgcaga ggaacacgac cgtcctgaat tctaaggtag tctccgtgac tgtgaaaccc 2760
ccgcctcgct cctgctgcac acccttggag atcgagtttg cccacatgta taatggcacc 2820
accaaccaga cctgtatcct gtgggatgag acggatgtac cctcctctc cgcccccccg 2880
cagctcgggc cctggctgtg gcgcggctgc cgcacgggtgc cctcgcacgc cctccggacg 2940
cgctgcctct gtgaccggct ctccacctc gccatcttag cccagctcag cgccgacgcg 3000
aacatggaga aggcgactct gccgtcgggt acgctcatcg tgggctgtgg cgtgtcctct 3060
ctcaccctgc tcatgctggg catcatctac gtgtccgtgt ggaggtacat tcgctcagag 3120
cgttctgtca tctcatcaa cttctgcctg tccatcatct cctccaatgc cctcatcctc 3180
atcgggcaga cccagaccg caacaagggt atgtgcacgc tgggtggccgc cttcctgcac 3240
ttcttcttcc tgtcctcctt ctgctgggtg ctacccagg cctggcagtc ctacatggcc 3300
gtgacgggcc acctccgaa ccgcctcatc cgcaagcgct tcctctgcct gggctggggg 3360
ctccctgcac tggttgtggc catttctgtg ggattcacca aggccaaagg gtacagcacc 3420
atgaactact gctggctctc cctggagggg ggactgctct atgccttcgt gggacctgcc 3480
gctgccgttg tctggtgaa catggtcatt gggatcctgg tgttcaacaa gctcgtgtcc 3540
aaagacggca tcacggacaa gaagctgaag gagcgggcag gggcctcct gtggagctcc 3600
tgcgtggtgc tgccgtgct ggcgtgacc tggatgtcgg ctgtgctgc cgtcaccgac 3660
cgccgtccg cctcttcca gatcctcttc gctgtcttcg actcgtgga gggcttcgtc 3720
atcgtcatgg tgcactgtat cctccgtaga gaggtccagg acgctgtgaa atgccgtgtg 3780
gttgaccggc aggaggagg caacggggac tcagggggct ccttcagaa cggccacgcc 3840
cagctcatga ccgacttca gaaggacgtg gatctggcct gtagatcagt gctgaacaag 3900
gacatcgcg cctgccgcac tgccaccatc acgggcacac tgaagcggcc gtctctgccc 3960
gaggaggaga agctgaagct ggcccatgcc aaggggcgc ccaccaattt caacagcctg 4020
ccggccaacg tgtccaagct gcacctgcac ggctcaccgc gctatcccg cgggcccctg 4080
cccgacttcc ccaaccactc actgacctc aagagggaca aggcgccccaa gtcctccttc 4140
gtcggtgacg gggacatctt caagaagctg gactcggagc tgagccgggc ccaggagaag 4200
gctctggaca cgagctacgt gatcctgccc acggccacgg ccacgctgcg gcccaagccc 4260
aaggaggagc ccaagtacag catccacatt gaccagatgc cgcagaccg cctcatccac 4320

ctcagcacgg cccccgaggg cagcctcccc gccgcagcc cgccctcccg ccagccccc 4380
agcggcgggc cccccgaggg acccctgcc cagcccccac cgctccgcc cccaccgcca 4440
ccacctcccc agcagcccct gccccaccg cccaatctgg agccggcacc cccagcctg 4500
ggggatcccg gggagcctgc cgcccatccg ggaccagca cggggcccag caccaagaac 4560
gagaatgtcg ccaccttgtc tgtgagctcc ctggagcggc ggaagtgcg gtatgcagaa 4620
ctggactttg agaagatcat gcacaccgg aagcggcacc aagacatgtt ccaggacctg 4680
aaccggaagc tgcagcacgc agcggagaag gacaaggagg tgctggggcc ggacagcaag 4740
ccggaaaagc agcagacgcc caacaagagg ccctgggaga gcctccgaa agcccacggg 4800
acgccacgt ggggtgaagaa ggagctggag ccgctgcagc cgtcgccgct ggagcttcgc 4860
agcgtggagt gggagaggtc gggcgccacg atcccgctgg tgggccagga catcatcgac 4920
ctccagaccg aggtctgagc ggggtggcg gggccacgca ctgggcccag gaggagggat 4980
gctgctccgc ccgctcctgc cgcagacggg cacagacagc ctgcgggca gcgggcccag 5040
cccgacccc ggcctcaggg cgctcagac gcggccaggc acagggcccg cagtgtctgg 5100
accagagcca gatgcaggac aggaggcggc ccggccagcg ggcacagggc accagaggcc 5160
gaaggtgcct cagactccgc cctcctcggg ccgaggcca gcgggcagat gggcggacgg 5220
ctgtggaccg tggacaggcc cagcgcggcc agcgtcccag ggtaccgcc tgagctcctg 5280
ctgcggagga gctgcctgct tggcccggcc ggcctggcac cgttttttaa acacccccat 5340
ccctcgga gacgccagct cccacacct tccagggcc tagggccctc ctgacccag 5400
gtggagggca cagccctccg accctcatgg ccccagggg caggactgag tcccctccag 5460
gaagaagcag gggggaatct attttttctc tccttttctt ttcttcaata aaaagaatta 5520
aaaacccaaa aaaaa 5535

<210> 68
<211> 398
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<400> 68
cggggcaacc cgctggagt gacgggccag gtgacgggtgc gcaagaagcg caagccctac 60
tccaagttcc agacgctcga gctcgagaag gagttcctct tcaacgcgta cgtcagcaag 120
cagaagcgt gggagctggc gcgcaacctc aacctaccg agcgccaggt caagatctgg 180
ttccagaacc ggcgcatgaa gaacaagaag aacagccagc gccaggcggc cagcagcagc 240
agcagcaaca gcagcagcag cagcagcagc aacagcagca agcgggccgc ggcggggcgt 300

cggccgccgc caacggccac cagggccacc aagcgcacca ccacgcgccc cccaacggcg 360
ccgtcgcagc cctcaagcac caccagtgc ccgtagcg 398

<210> 69
<211> 8670
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<400> 69
cccgggtgcg gtgtcgtgtg tggggctggg cgccatgttc ctggacatgc tgagggccaa 60
gcgcgacacg gcgcccagacc gccgccagct ggacgaccgg atgatggggg cggacccggg 120
ggacatagcg gccaaaggtga gggcagggtt ttgcgtgcgt gcttgattgt gcgtgtgcgt 180
gcgtgcgtgc gtgcgtgcgg tgttgcgtgt gtatttgaac tgtgttttgt gtatgtactt 240
aggggtaaga gtgcatacac atgcatgcga ccggtggcct taaaaatcaa caacacgtac 300
gcctgcatgt atccaggtgg cagcgtggcg acgagcacgt ggcttcgagg gcccgaggac 360
ggcggggccc agcggcagcg ccgccagtgg cagcggcgcc agcggctcgg caccgcaggc 420
gcgctcgcgc cgacctcagc caccgcggcc gcgctcacct tcacgcgggt gaaccccggc 480
gaggagccgc ccgtgtacgc gtgcgagcaa acaggtgcgt aagcgacgtg tgggcagcgc 540
gaagaggcgt gggggcgaga gagcaaaggg actagggaaa cgcacagcca aatacggtat 600
gcgggcaacg aggcgatggc cctggaaatc gcagggccct tttgaaatcg tgtaaggcgc 660
aattgctggg cgactaccgt agtctactga tgcattgcac tacttgtatt actgtatcct 720
actgcagtag tgccgttgcc agccgcgctg ctgccctttg gctcccttcc caatccaaat 780
ggcccatgcc tcgcgcactc cgagcaccca gagcacccag aagccgttgc gtgcgctccg 840
ccgccgccct ctccccgcc ttcacttctt aattaatcgt gaatgtaatc ccccccccc 900
ccgcttcctc aggtctgggtg cacgtgtgcg cgacgcctgc acggaggggtg tgggtggatgc 960
ccgcagcgaa ctgctggtgt gcccggtgag tcgacgagga ggaggtgcaa gggggatacc 1020
agcgcgtgtt tctcagggcc tgtgtgggac accgaaacgt ggtaaaagag acccgccgc 1080
gaactgtgta tgtggagtag cgtggcgtgt gcggccggac cgacaaggca gcttgtggac 1140
tgccccacgt tgcagagtca gctgacaacg acacgtgcgc ctctctgtca ttgcccgctgc 1200
gcacgcacgt cctccgact cccaacaaat tgacagcgac acgtgcgcct tcctataagc 1260
ctatgccgc acacgtctcc gcgcctcag gtgtcggggc agaccacaga ccggttggtc 1320
cacgagtgcg aggaggatga ggcgggcggc tgcggcggcg ccggcggggc gccgcggcga 1380

ggaggacggc ctgggactgg gcatcacagg tgggtggcag gctggcaggg actcacgcat 1440
gggccttgta cgtgactgcg gttctgcatg gctagtggct cacgcgctgc gcacgttcac 1500
gtacggcttg tgggcatgca gtgccttgac gtgaggctgc gctgccttg tgctgccgcc 1560
ttgccccgct cctgcacac actgcagccg gcttcgggcg ctacttcacc gcgggctacg 1620
agtgcgagaa cgcgcagcag ctcaacaggc tgctggggta caaggcgctg tgagagcgcg 1680
ccgcaggggg agtgtgttca tattgtggtt gtttgggccg tgggcgcggg ctgcatgtgc 1740
gtattgcacg cgtacagcat tggtgactgg tcaggtgtaa gcggccggca gtgcgccgcg 1800
aggcgctgca gcgagttgtg gggcatgct catgcgcaga cggcccctgg acgacaaggc 1860
gttgagttgg cgtttggagg tgtgggacga cgtggggttt gtgccgtcaa agcacagaac 1920
agaaggcggt accgttttac gagctcgtat gatgtagcat ggattgaata atgacatgtg 1980
atttttgtaa caagcgacga atgcgtgggg ttttgatgg caggggtttc agtcgccga 2040
ttgcgcatgc acacgtgacc aaatttatgc tcaacgacgt gaccattgct ttatacatac 2100
ttgtgtatcg gttggcactt ataacaattg gctcgtcaaa ttgacgcgag gctgcacttc 2160
gatcctgaaa gccccagttc aacaagtgg atagccaaat ggccccgctc gctctccagc 2220
atcaaggggc ctctaagtgc ctgcgggcaa ccagcgcaa gtgtgctcgc gttgcggtga 2280
gctggactcg tgcaactgtc gacgccgtcg gcaccgcaat cgaaagacgc gtgcgtcgag 2340
caattgtgga agccgctgac gaattgtccg catgtgacat tgcaggctcg cgtccccgct 2400
cgtctcagcg tcatggccca ggtgcggacg ttgggactgc acttgacga atgtgatggg 2460
gccgcaccga gtctgcgcgg acgtctcgt gacgtttcgc gttgaatgca tctcgcaata 2520
ggcagctgct gcgcctgctg acaacactaa gaagctgtgg ggcggtcgtc tcacgggcaa 2580
gacggacccg ctcatggaga agttcaacga gtcgctgccc tttgacaagc gcctgtgggc 2640
tgaggacatc aaggtgcggc acagggaggg gggcgagtgg tggggtgggg ctggggggga 2700
cgcggtttt gtggccaggg cagggaggga agacgtgcgg ggctaggcaa gaggctgcga 2760
gggcccagg taacaccaga ccgtgccgtg tcgctgccc ggcttgctgc ccacctgcc 2820
cggccatccc caccgccctc cccaccagca atgacacgta cacattcaca cactccccca 2880
caccacata cccacacacc cacgcattcc ccaacagggc agccaggcgt acgccaaggc 2940
tcttgccaag gccggcattc tggcacatga cgaggccgtg accattgtgg aggggctggc 3000
caaggtgcgc acaccggca gcagggcggg tgggtgggtg ggtgggtgg gggggcagag 3060
agaggcgcg gctgagagg ggctgagagg ggggtcagcg aggcgcaggc tcagggggag 3120
gcgtctgagg ggggctgaga tgggtgtgg ggagctgcgg gtgctggggc tgctgcggtg 3180
gcgggcgggc gggcgggcg gcgacgtgta cgtgagtagc cgctgaccgg gcgctggggc 3240

tttgcgcacg	ccacagccca	catgacaccg	ccgcaaggcc	cgccgcgcc	cacccacgtt	3300
cacacactcc	ccacaccac	gcgtgcgcgc	gcctccttcc	cctcaataca	cgcgccctcct	3360
tcccctggcc	cccgcctgct	ccccccatcc	ggccgccccg	cctgcaggtg	gctgaggagt	3420
ggaaggcggg	tgcctttgtg	atcaaggcgg	gtgacgagga	catccacacg	gccaacgagc	3480
ggcgccctcac	ggagctggtg	ggggcggttg	gcggcaagct	gcacaccggc	cgctcgcgca	3540
acgaccaggt	gaggggtggg	gggtgggggt	gggggtgggtg	ggtgggtggg	tgggtgggtg	3600
ggtgggtggg	tgggtgggtg	ggtgggtggg	ggtttgagat	accggtacca	ggccaaacta	3660
aaccgaaccc	aaggggggtg	cgtagggggc	tgggaggggg	ggagtgcgga	agccgggagg	3720
caggagtaag	ggcgggagga	gggggccgga	ggagaagcag	ggacgaagtc	gatgacaggc	3780
gcagtcggtg	gcggcggttg	cgggtgtgcc	gttgtgcagt	ggctgtggag	gccatgtgca	3840
gggcggcggc	ggggccgggc	cgggggtggg	agacttgtcc	agaccccg	gcctccttcc	3900
agccccgtcc	gccactgccg	ccaccaccac	cgccgcgcc	gtagccacca	cccctcacgt	3960
cgaggcactt	cacagatgcg	aagcaaccac	accgttctcc	acatgaacag	ctaccctccc	4020
aaacccaact	tccccttccc	gccttaccta	accatgaccc	gctaccccc	ccccctttat	4080
ttcttaacta	accatgaatg	cccccccccg	gctgtacctg	gctaogactt	cacttcgtaa	4140
acttaatgtg	tgtaaccccc	cttacacaca	cacacacacc	cctccccgcc	cctccaaagg	4200
ttgccaccga	ctaccggctg	tggctggttg	gtcaggtgga	ggtgatgcgg	tccgaggtgg	4260
gcgagctgat	gcgcgtggcg	gcggaccgct	ccgaggcaga	ggtggaggtg	ctcatgccgg	4320
gtgagggggc	agggaggggg	ggagggggag	ggggaggtgc	tcatgccggt	gagggtaggg	4380
aggggagggg	cagaggaggg	agggggagga	gggggcggct	gagtgcggga	gaggcagggg	4440
tgagggcgat	agaaagttgc	gtattgtcgg	taaactcaaa	ggactagacg	aagagaacaa	4500
acctaataaa	gggagctgga	gcgaggccaa	atctgaacgt	gacatogccc	gcctcctccc	4560
gctgcctgct	ccccacctc	ctcccccatc	tgcccccccc	ccccacacac	acacaggctt	4620
cacgcacctt	cagaatgcca	tgactgtgcg	ctggagccac	tggctgatga	gccacgccgc	4680
ggcctggcag	cgcgacgaca	tgcggctgcg	ggacctgctg	ccgcgggttg	ccacactgcc	4740
gctgggctcg	ggtgggtgag	ggaggggagg	ggaggggagg	gggggagggg	gagggagagg	4800
agggggagaag	gggggggggag	acgaggaggg	tggaagggtg	ggggcggggc	ggtggagggt	4860
agaggggtgg	gctgggtggg	tggacggagt	gcactggtag	aggagggata	gggtacattg	4920
agacgggagg	agggatgcag	gggcgaaggt	ggggaggagg	ggaggggagg	aggcgtggag	4980
ctggagtggg	ccgacgagtg	tgcggacggg	gcaggcgcca	acggggatta	aacggcgggg	5040
ggccggggcg	tgtgcacgac	aggggcttgc	gcgtctgcga	ttgtgggggc	acacaggggc	5100

aggagcacga cgtgggacac gcatagatac gccgcattga caacacacac acacacacac 5160
acacacacac acacacacac acacacacaa acacaaacac acacaaacac aaacacacac 5220
acgccccccc ccctacacac acgccccctc cccaggcgcc ctggccggca acccctttct 5280
ggtggaccgc cagttcatcg ccaaggagtt gggtttcggc ggcggcgtgt gcccactc 5340
catggacgcg gtgaggggag gaggaggggg aggagggcg gggggggcag gaggggggag 5400
gaggaggggg ggaggggggt aactttgaag cgtaaggaaa cagtcgggag gaggggggga 5460
aggagggggc ctggaggagg gggggaggag gaggggtggct ggagggggct gggggaggag 5520
gagggggagg attgggagg ggctggggga ggggtgccgc agctggggga ggtggggagg 5580
gaggggggtg ctgctggtgt aaagggcctg taggcactga gagcactgtg gggagccggg 5640
gtactgcctg gggccccgcg ctgcagaggt gtcgcgcagt gtggcggcgc atccccgca 5700
tccccacacg cgggcccgtg ccgctgcccg ccacaccctt gccactttgt gtgctttcct 5760
aggatataca cacacacaca cacacacaca cacacacaca cacacacaaa cacaaacaca 5820
cacgggcgcg ggctttcgtt tcgtttttta acacaaacac aactcccc tgtgctcctc 5880
aacacactcc atctttctca cacaaacaca cacgcacaca cacatgcgca ggtgtctgac 5940
cgcgactttg tgatcgagac ggtggttgcg gccagcctgc tgtgctgca cctgtcgcgc 6000
tgggcggagg acctcatcat ctacagctcc ggccccctcg gctacgtgca gtgcagcgac 6060
gcctacgcca cgggctcctc gctcatgccg cagaagaaga accccgacgc cctggagctc 6120
atcaggtgcg ggagggatgg ggtgggggtg ggggggttac attcatggt agttaagaag 6180
tgaaggcgta gggggtgat ggggtgggtt acattcatga acatttaaga agtgaaggcg 6240
tagccaggaa cagtagtaga gcagacgcgt tgtagtgtgt gggtttgggt gggagggatg 6300
gttgggtaaa gcggtacagg atgtactgag gactgcagac cgaaggagcg ggggaggggg 6360
agcaggcagg cggggcgagg ggcgtggggg cgggggttac tggcaccgtg ccgggtaagc 6420
aacacgtgac acggagatgc accacacaaa gagggacgtg gggagtggca ggcggggggc 6480
agggctgaga ggcgcgtgtg gaggggtgag ggggtggcg ggggctgtt tcatgatacc 6540
gctgcctcca cctcctccac cgctcctgc cacctccacc tccccactg cccctccccg 6600
cctcctcctg ctgcaggggc aagggcggtc gtgtgcagg caacctgatg ggcgtcatgg 6660
cggtgctcaa gggcacgcc accacataca acaaggactt ccaggcgaga gagcgagagc 6720
gagggagggg gggagagcga gggagaggga gggagaggga gggagaggga gacagaggga 6780
cagggacagg gacagggaca gggacaggga cagggacagg ggcaggggca ggggcagggg 6840
caggggcagg ggcaggggag gcccccggg ggcggcgggc ccggggcatg aggtcagaca 6900
taggggcgct gcaactgaggc cgcgaggcg gcgggaggca gggggcgggg ggcggggggc 6960

gggagcggac atgcgccgca aacacagacg ggttgagaaa gcacaacgac tggaacgcag 7020
 tgggcttact gacaattcat cattgtgcgc atatgtgtgt atgtgtatgt gtgtgtttgt 7080
 ttgtgcagga gtgttgggag ctgctgtttg acacggtgga cacggtgcac gacgtggtgc 7140
 gcatcgccac cggcgtgctg tccaccctgc ggatcaagcc cgaccgcatg aaggccggtg 7200
 agcgtagccg agcagggtg gagcagcagc cgggcagcag tagcagcagg gcaggggagc 7260
 agcgggagcg ggagcagcag gaggggtggt tgggaagcgg tgggggtagg gtgggagcgg 7320
 aggaaggga ggaggagcag gagcaggagg aagaggagga ggaaggcggtg tgggggtggtg 7380
 ggggtcgtgt ccttgccgc atgggcggag gcggggaggc ggggaggagg cggggaagca 7440
 gagcctgcac ccacgctcog cgggtcccta cgtcttgcg cctaaccocg tgcgcctagc 7500
 ctcttgccgc caccocctta gtgcacctg taccocctt tccaaacatc cttgcaactc 7560
 cctgacctcc tcgccaacc tccccgcgc ccaggcctgt ccgccgacat gctcgccacg 7620
 gacttgcccg agtacctggt gcgcaagggc gtgccgttcc gggagacaca ccaccacagg 7680
 tgcggccggg cgggagggcg tgagggcggt ggtggggcat gcccggggtt gtgagagcta 7740
 tcgaacgttg tgccgcgcct gtttcacaat gtcgggccac agggatatga gtttcctctc 7800
 catatgtata acaaactgac caccaatcat gcacgctcac acgctctccc acacacagc 7860
 gcaccacgcc accacagcgg cgcgcgcgtg aagatggccg aggaccgcgg ctgcacgctg 7920
 ttcgacctca cgttgacga cctcaagacc atccaccgc tcttcaccga cgacgtggcg 7980
 gcggtgagcg gcggcgcgga gcagcagcag cagcagcagc agcagcagca gcagcagcag 8040
 tagcctgggg gggagcgtgt gggaggaacg gcgggggagg ggaggcgggg ggtgtcgttt 8100
 gcagccgagc gcacgtggtg ctttgcccca ttccatgcca gcagggtgac acacctgacc 8160
 atgctggtgt gctgctaggt ggttcacacc tacgtgtgaa tttgtgctgg cgtgcgcaca 8220
 ccttactgtg gccatgtgaa cggcatcctc atgtcctcgt gattgcgcc gccacattgc 8280
 ccacaacccc gcaccacca gctcctcaat ccagtgaag gaaaggaaat gcacgcccgc 8340
 cgcaccaaca acacgacgca tgtgtttgcc acgtgcgcgc acacacgcgc aggtgtggga 8400
 cttcaaccgc agcgcggaga tgccgcgacac ggaggcggc accagcaagc gctcgtgct 8460
 ggagcaggtg cagaagatgc gcacctacct ggccggcgag ggacagcact gagcgggtcg 8520
 ggggaggggg ggccgggtgt tatgtgtgtg tgtgtgcgtg tgtaagtctc ggtggagggg 8580
 tggcctcta tatggcgcg gggccacagg gggacgggtg tgacagagtt acggccggag 8640
 ccagcgaggt cccgggatgg attaaggatc 8670

<210> 70
 <211> 745

<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism:Unknown

<400> 70

```
atgagatggc gacgcgcccc gcgcgcgtcc gggcggtccc gccccgggc ccagcgcccc 60
ggctccgccc cccgctcgtc gcgcgcgtcg ccgctgctgc cactactgct gctgctgggg 120
accgcggccc tggcgccggg ggcgggcgcc ggcaacgagg cggctccgc gggggcctcg 180
gtgtgctact cgtccccgcc cagcgtggga tcggtgcagg agctagctca gcgcgccgcg 240
gtggtgatcg agggaaaggt gcacccgcag cggcggcagc agggggcact cgacaggaag 300
gcggcggcgg cggcggggca ggcagggggc tggggcgggc atcgcgagcc gccagccgcg 360
ggccacggg cgctggggcc gccgcgcgag gagccgctgc tcgcccga cgggaccgtg 420
ccctcttggc ccaccgcccc ggtgcccagc gccggcgagc ccggggagga ggcgccctat 480
ctggtgaagg tgcaccaggt gtgggcggtg aaagccgggg gcttgaagaa ggactcgctg 540
ctcaccgtgc gcctggggac ctggggccac cccgccttcc cctcctgcg gaggtcaag 600
gaggacagca ggtacatctt ctcatggag cccgacgcca acagcaccag ccgcgcgccg 660
gccgccttcc gagcctcttt cccccctctg gagacggggc ggaacctcaa gaaggaggtc 720
agccgggtgc tgtgcaagcg gtgcg 745
```

<210> 71
<211> 1986
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism:Unknown

<400> 71

```
gaattccttt tttttttttt tttttcttt ttttttttgc cttataacct cttcgctttt 60
ctgtggttcc atccacttct tccccctcct cctcccataa acaactctcc taccctgca 120
cccccaataa ataaataaaa ggaggagggc aaggggggag gaggaggagt ggtgctgcga 180
ggggaaggaa aagggaggca gcgcgagaag agccgggcag agtccgaacc gacagccaga 240
agccgcacg cacctgcac catgagatgg cgacgcgcc cgcgccgctc cgggcgtccc 300
ggccccggg cccagcgccc cggctccgcc gcccgctcgt cgccgcgct gccgctgctg 360
ccactactgc tgctgctggg gaccgcggcc ctggcgccgg gggcgggcgc cggcaacgag 420
gcggctccc cgggggcctc ggtgtgctac tegtccccgc ccagcgtggg atcggtgcag 480
gagctagctc agcgcgccgc ggtggtgatc gagggaaagg tgcacccgca gcggcggcag 540
```

cagggggcac tcgacaggaa ggcggcggcg gcggcgggcg aggcaggggc gtggggcggc 600
gatcgcgagc cgccagccgc gggccacagg gcgctggggc cgcccgccga ggagccgctg 660
ctcgccgcca acgggaccgt gccctcttgg ccacccgccc cggtgcccag cgccggcgag 720
cccggggagg aggcgcccta tctggtgaag gtgcaccagg tgtgggcggt gaaagccggg 780
ggcttgaaga aggactcgct gtcaccgtg cgctgggga cctggggcca ccccgccctc 840
ccctcctgcg ggaggctcaa ggaggacagc aggtacatct tcttcattga gcccgcgccc 900
aacagcacca gccgcgcgcc ggccgccttc cgagcctctt tccccctct ggagacgggc 960
cggaacctca agaaggaggt cagccgggtg ctgtgcaagc ggtgcgcctt gcctcccaaa 1020
ttgaaagaga tgaaaagcca ggaatcggt gcaggttcca aactagtcct tcggtgtgaa 1080
accagttctg aatactcctc tctcagattc aagtggttca agaattggaa tgaattgaat 1140
cgaaaaaaca aaccacaaaa tatcaagata caaaaaaagc cagggaagtc agaacttcgc 1200
attaacaaag catcactggc tgattctgga gagtatatgt gcaaagtgat cagcaaatta 1260
ggaaatgaca gtgcctctgc caatatcacc atcgtggaat caaacgctac atctacatcc 1320
accactggga caagccatct tgtaaaatgt gcggagaagg agaaaacttt ctgtgtgaat 1380
ggaggggagt gcttcattgt gaaagacctt tcaaaccctt cgagatactt gtgcaagtgc 1440
ccaaatgagt ttactggtga tcgctgcaa aactacgtaa tggccagctt ctacagtacg 1500
tccactccct ttctgtctct gcctgaatag gagcatgctc agttggtgct gctttcttgt 1560
tgctgcatct cccctcagat tccacctaga gctagatgtg tcttaccaga tctaattattg 1620
actgcctctg cctgtcgcat gagaacatta aaaaagcaa ttgtattact tcctctgttc 1680
gcgactagtt ggctctgaga tactaatagg tgtgtgaggc tccggatgtt tctggaattg 1740
atattgaatg atgtgataca aattgatagt caatatcaag cagtgaaata tgataataaa 1800
ggcatttcaa agtctcactt ttattgataa aataaaaatc attctactga acagtccatc 1860
ttctttatac aatgaccaca tcctgaaaag ggtgttgcta agctgtaacc gatatgcact 1920
tgaaatgatg gtaagttaat tttgattcag aatgtgttat ttgtcacaaa taaacataat 1980
aaaagg 1986

<210> 72
<211> 2003
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<220>
<221> Misc_feature

<400> 72						
ggaattcctt	tttttttttt	ttttttttctt	ntttttttttt	tgcccttata	cctcttcgcc	60
tttctgtggt	tccatccact	tcttccccct	cctcctccca	taaacaactc	tcttaccctt	120
gcacccccaa	taaataaata	aaaggaggag	ggcaaggggg	gaggaggagg	agtggtgctg	180
cgaggggaag	gaaaaggagg	gcagcgcgag	aagagccggg	cagagtccga	accgacagcc	240
agaagcccg	acgcacctcg	caccatgaga	tggcgacg	ccccgcgcg	ctccggg	300
cccgcccc	gggcccagc	ccccggctc	gcgcgcgc	cgtcgcgc	gctgccgctg	360
ctgccactac	tgtgtgtgt	ggggaccg	gccttgggc	cggggggcgg	ggccggcaac	420
gaggcggctc	ccgcggggg	ctcgggtgt	tactcgtccc	cgccagcgt	gggatcgggtg	480
caggagctag	ctcagcgcgc	cgcggtggtg	atcgagggaa	aggtgcaccc	gcagcggcgg	540
cagcaggggg	cactcgacag	gaaggcggcg	gcggcggcgg	gcgaggcagg	ggcgtggggc	600
ggcgatcgc	agccgccagc	cgcggggcca	cgggcgctgg	ggcgcgccgc	cgaggagccg	660
ctgctcgcg	ccaacgggac	cgtgccctct	tggcccaccg	ccccggtgcc	cagcgcgggc	720
gagcccggg	aggaggcgcc	ctatctggtg	aaggtgcacc	aggtgtgggc	ggtgaaagcc	780
gggggcttga	agaaggactc	gctgtctacc	gtgcgcctgg	ggacctgggg	ccaccccgcc	840
ttccctcct	gcgggaggct	caaggaggac	agcagggtaca	tcttcttcat	ggagcccgc	900
gccaacagca	ccagccgcgc	gccggccgcc	ttccgagcct	ctttccccc	tctggagacg	960
ggccggaacc	tcaagaagga	ggtcagccgg	gtgctgtgca	agcgggtgcgc	cttgccctccc	1020
caattgaaag	agatgaaaag	ccaggaatcg	gctgcagggtt	ccaaactagt	ccttcgggtgt	1080
gaaaccagtt	ctgaatactc	ctctctcaga	ttcaagtgg	tcaagaatgg	gaatgaattg	1140
aatcgaaaaa	acaaaccaca	aaatatcaag	atacaaaaaa	agccagggaa	gtcagaactt	1200
cgcattaaca	aagcatcact	ggctgattct	ggagagtata	tgtgcaaagt	gatcagcaaa	1260
ttaggaaatg	acagtgcctc	tgccaatatc	accatcgtgg	aatcaaaccg	tacatctaca	1320
tccaccactg	ggacaagcca	tcttgtaaaa	tgtgcggaga	aggagaaaac	tttctgtgtg	1380
aatggagggg	agtgttcat	ggtgaaagac	ctttcaaacc	cctcgagata	cttgtgcaag	1440
tgcccaaagt	agtttactgg	tgatcgcctg	caaaactacg	taatggccag	cttctacagt	1500
acgtccactc	cctttctgtc	tctgcctgaa	taggagcatg	ctcagttggt	gctgctttct	1560
tgttgctgca	tctccctca	gattccacct	agagctagat	gtgtcttacc	agatctaata	1620

ttgactgcct ctgcctgtcg catgagaaca ttaacaaaag caattgtatt acttcctctg 1680
 ttgcgcacta gttggctctg agatactaag aggtgtgtga ggctccggat gtttctggaa 1740
 ttgatattga atgatgtgat acaaattgat agtcaatatc aagcagtga atataataat 1800
 aaaggcattt caaagtctca cttttattga taaaataaaa atcattctac tgaacagtcc 1860
 atcttcttta tacaatgacc acatcctgaa aagggtgttg ctaagctgta accgatatgc 1920
 acttgaaatg atggtaagtt aattttgatt cagaatgtgt tatttgcac aaataaacat 1980
 aataaaagga aaaaaaaaaa aaa 2003

<210> 73
 <211> 957
 <212> DNA
 <213> Unknown

<220>
 <223> Description of Unknown Organism:Unknown

<220>
 <221> Misc feature
 <222> (809)
 <223> N is any nucleic acid

<220>
 <221> Misc feature
 <222> (810)
 <223> N is any nucleic acid

<220>
 <221> Misc feature
 <222> (811)
 <223> N is any nucleic acid

<400> 73
 tctcgcccca actttttccc ccgcgctccg cagcagcagc agcagcagca gcagcagcag 60
 caaaatggca gacctcttca gcggactcgt gggcggcgtc gtcggcgctg ttgctgcagc 120
 agatttgctt gcggagggcg agagggcccc ccgccccgcc cccggcactg cctggacttg 180
 ctgctgcagc aaactgcaag aaggggcccc cgagctggag ggttttgtgc agcagctgag 240
 ttttgttgca ggaagctgg cctgctgcct gcgggtggg gcggagcagc tggcgcgctg 300
 cgctgcggag gggcggtgc ccagcagcag cagcagcagc agctgctgcg cgctgctgca 360
 gctcgagaag caggacctcg agcagagcct cgaggccggc aagcagggcg cggagtgcct 420
 cttgaggagc agcaaactgg ccctcgaggc cctcctcgag ggggcccgcg ttgcagcaac 480
 gcgggggttg ctgctggctg agagcagcaa agacacggtg ctgcgcagca ttccccacac 540
 ccaggagaag ctggcccagg cctacagttc tttcctgcgg ggctaccagg gggcagcagc 600
 ggggaggtct ctgggctacg gggcccctgc tgctgcttac ggccagcagc agcagcccag 660

cagctacggg gcgcccccg cctccagcca gcagccctcc ggcttcttct ggtagccctg 720
cagcagcagc agcagcagca gcagcagcag cagcgcgggc ggagccgcg gcggggcccg 780
ggcgccgctg cagcaacagc agcagccggn ncggttagcg ccgcgagca ctgcagggga 840
actccacagg cagcgggaga gcagcagga cgagaagcag gtcattagc gcaggcagca 900
gcgccagctg cagcagcagc agcagcagca gcagcagcag cagcagctcc tgcaccg 957

<210> 74
<211> 957
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<220>
<221> Misc feature
<222> (809)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (810)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (811)
<223> N is any nucleic acid

<400> 74
tctcgcccca actttttccc ccgcgctccg cagcagcagc agcagcagca gcagcagcag 60
caaaatggca gacctcttca gcggactcgt gggcgcgctc gtcggcgctg ttgctgcagc 120
agatttgctt gcggagggcg agagggcccc ccgccccgcc cccggcactg cctggacttg 180
ctgctgcagc aaactgcaag aaggggcccc cgagctggag ggttttgtgc agcagctgag 240
ttttgttgca gggaagctgg cctgctgcct gcgggtgggg gcggagcagc tggcgcgctg 300
cgctgcggag gggcggtgc ccagcagcag cagcagcagc agctgctgcg cgctgctgca 360
gctcgagaag caggacctcg agcagagcct cgaggccggc aagcagggcg cggagtgcct 420
cttgaggagc agcaaaactgg ccctcgaggc cctcctcgag gggggcccg ttgcagcaac 480
gcggggtttg ctgctggctg agagcagcaa agacacggtg ctgcgcagca ttccccacac 540
ccaggagaag ctggcccagg cctacagttc tttcctccgg ggctaccagg gggcagcagc 600
ggggaggtct ctgggctacg gggcccctgc tgctgcttac ggccagcagc agcagcccag 660
cagctacggg gcgcccccg cctccagcca gcagccctcc ggcttcttct ggtagccctg 720
cagcagcagc agcagcagca gcagcagcag cagcgcgggc ggagccgcg gcggggcccg 780

ggcgccgctg cagcaacagc agcagccgnn nccgctagcg ccgcgagca ctgcagggg 840
actccacagg cagcgggaga gcagcaggga cgagaagcag gtcatgtagc gcaggcagca 900
gcgccagctg cagcagcagc agcagcagca gcagcagcag cagcagctcc tgcaccg 957

<210> 75
<211> 1089
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<220>
<221> Misc feature
<222> (376)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (377)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (847)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (848)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (849)
<223> N is any nucleic acid

<220>
<221> Misc feature
<222> (850)
<223> N is any nucleic acid

<400> 75
gaattccctc caactcttcg cgactctctc tctctcgccc caactttttc ccccgcgccc 60
cgcagcagca gcagcagcag cagcagcaaa atggcagacc tcttcagcgg actcgtgggc 120
ggcgtcgtcg gcgctgttgc tgcagcagat ttgcctgcgg agggcgagag ggccccccgc 180
cccgcccccg gcactgcctg gacttgctgc tgcagcaaac tgcaagaagg ggcccgcgag 240
ctggagggtt ttctgcagca gctgagtttt gttgcaggga agctggcctg ctgcctgcgg 300
gtggggggcgg agcagctggc gcgctgcgct gcggaggggc ggctgccag cagcagcagc 360
agcagcagct gctgcnnct gctgcagctc gagaagcagg acctcgagca ggcctcgag 420
gccggcaagc agggcgcgga gtgcctcttg aggagcagca aactggccct cgaggccctc 480

```
<210> 76
<211> 1985
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown
```

<400> 76						
cgccgagctt	tgggcacctc	tgccgggtgg	taccgagcct	tcccggcgcc	ccctcctctc	60
ctcccacccg	cctgcccctc	cccgcgggac	tatcgcccc	acgtttccct	cagccctttt	120
ctctcccggc	cgagccgcgg	cggcagcagc	agcagcagca	gcagcaggag	gaggagcccg	180
gtggcgggcg	tggccgggga	gcccattggc	tacagtcaag	gaggcgggca	aaaaaaagtc	240
tgctactact	acgacggtga	tattggaaat	tattattatg	gacaggggtca	tcccatgaag	300
cctcatagaa	tccgcatgac	ccataacttg	ctgttaaatt	atggcttata	cagaaaaatg	360
gaaatatata	ggccccataa	agccactgcc	gaagaaatga	caaaatatca	cagtgatgag	420
tatatcaaat	ttctacggtc	aataagacca	gataacatgt	ctgagtatag	taagcagatg	480
catatattta	atgttgagga	agattgtcca	gcgtttgatg	gactctttga	gttttgtcag	540
ctctcaactg	gcggttcagt	tgctggagct	gtgaagttaa	accgacaaca	gactgatatg	600
gctgttaatt	gggctggagg	attacatcat	gctaagaaat	acgaagcatc	aggattctgt	660
tacgttaatg	atattgtgct	tgccatcctt	gaattactaa	agtatcatca	gagagtctta	720
tatattgata	tagatattca	tcatggtgat	ggtgttgaag	aagcttttta	tacaacagat	780
cgtgtaatga	cggtatcatt	ccataaatat	ggggaatact	ttcctggcac	aggagacttg	840

agggatattg gtgctggaaa aggcaaatac tatgctgtca attttccaat gtgtgatggt 900
 atagatgatg agtcatatgg gcagatatatt aagcctatta tctcaaaggt gatggagatg 960
 tatcaacctg gtgctgtggt attacagtgt ggtgcagact cattatctgg tgatagactg 1020
 ggttgtttca atctaacagt caaagggtcat gctaaatgtg tagaagttgt aaaaactttt 1080
 aacttaccat tactgatgct tggaggagggt ggctacacaa tccgtaatgt tgctcgatgt 1140
 tggacatatg agactgcagt tgcccttgat tgtgagattc ccaatgagtt gccatataat 1200
 gattactttg agtatatttg accagacttc aaactgcata ttagtccttc aaacatgaca 1260
 aaccagaaca ctccagaata tatggaaaag ataaaacagc gtttgtttga aaatttgccg 1320
 atgttacctc atgcacctgg tgtccagatg caagctattc cagaagatgc tgttcatgaa 1380
 gacagtggag atgaagatgg agaagatcca gacaagagaa tttctattcg agcatcagac 1440
 aagcggatag cttgtgatga agaatttctca gattctgagg atgaaggaga aggaggtcga 1500
 agaaatgtgg ctgatcataa gaaaggagca aagaaagcta gaattgaaga agataagaaa 1560
 gaaacagagg acaaaaaaac agacgttaag gaagaagata aatccaagga caacagtggg 1620
 gaaaaaacag ataccaaagg aaccaaatac gaacagctca gcaaccctg aatttgacag 1680
 tctcaccaat ttcagaaaat cattaaaaag aaaatattga aaggaaaatg ttttcttttt 1740
 gaagacttct ggcttcattt tatactactt tggcatggac tgtatttatt ttcaaattgg 1800
 actttttcgt ttttgttttt ctgggcaagt tttattgtga gattttctaa ttatgaagca 1860
 aaatttcttt tctccaccat gctttatgtg atagtattta aaattgatgt gagttattat 1920
 gtcaaaaaaa ctgatctatt aaagaagtaa ttggcctttc tgagctgaaa aaaaaaaaaa 1980
 aaaag 1985

<210> 77

<211> 476

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism:Unknown

<400> 77

ccaccctcct cccctcccc cgccacttc gctaaacttg tggtgttgt gatgcgtatt 60
 cctgtagatc cgagcaccag ccggcgcttc agccccct ccagcagcct gcagcccgcc 120
 aaaatgagcg acgtgagccc ggtggtggct gcgcaacagc agcagcaaca gcagcagcag 180
 caacagcagc agcagcagca gcaacagcag cagcagcagc aggaggcgcc ggccggcggt 240
 gcggcgccag ccggcggtgc ggccggcgga gctgcagtgc cccggttgcc gccgccccac 300
 gacaaccgca ccatggtgga gatcatcgcc gaccaccgga ccgaactcgt ccgcaccgac 360

<213> Homo sapiens

<220>

<221> Misc_feature

<222> (3)

<223> Xaa is any amino acid

<400> 82

Trp Ser Xaa Trp Ser
1 5

<210> 83

<211> 6

<212> PRT

<213> Homo sapiens

<400> 83

Cys Ser Val Thr Cys Gly
1 5

<210> 84

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<221> Misc_feature

<222> (4)

<223> Xaa is any amino acid

<400> 84

Gly Cys Gln Xaa Arg
1 5

<210> 85

<211> 733

<212> DNA

<213> Homo sapiens

<400> 85

gggatccgga gcccaaattct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg 60
aattcgaggg tgcaccgtca gtcttctctt tcccccaaaa acccaaggac accctcatga 120
tctcccggaac tcctgaggtc acatgcgtgg tgggtggacgt aagccacgaa gaccctgagg 180
tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300
ggctgaatgg caaggagtac aagtgcagg tctccaacaa agccctocca acccccatcg 360
agaaaacat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
catccccgga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480

atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga 540
ccacgcctcc cgtgctggac tccgacgggt ccttcttctt ctacagcaag ctcaccgtgg 600
acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc 660
acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720
gactctagag gat 733

<210> 86
<211> 86
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:DNA Primer

<400> 86
gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60
cccgaaatat ctgccatctc aattag 86

<210> 87
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:DNA Primer

<400> 87
gcggcaagct ttttgcaaag cctaggg 27

<210> 88
<211> 271
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR Fragment

<400> 88
ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60
aaatatctgc catctcaatt agtcagcaac catagtcccg ccctaactc cgcccatccc 120
gcccctaact ccgcccagtt ccgcccattc tccgcccacat ggctgactaa ttttttttat 180
ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggcctt 240
ttttggaggc ctaggctttt gcaaaaagct t 271

<210> 89

<211> 32
<212> DNA

<213> Homo sapiens

<400> 89
gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 90
<211> 31
<212> DNA
<213> Homo sapiens

<400> 90
gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 91
<211> 12
<212> DNA
<213> Homo sapiens

<400> 91
ggggactttc cc 12

<210> 92
<211> 73
<212> DNA
<213> Homo sapiens

<400> 92
gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60
ccatctcaat tag 73

<210> 93
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR Fragment

<400> 93
gcggcaagct ttttgcaaag ctaggc 27

<210> 94
<211> 652
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature

<222> (524)

<223> N is any nucleic acid

<400> 94

ggcataagat cacacttttag ttcagagaca catttgcata aatacttgaa atggatccac 60
ccctgcaggt ggcagcctga gaacatggcg ctgcaggggg accagggcag cgtctggttc 120
aggtggacga acagcgggtgc catcacgtgg tgcttgccca tgggcccga gagccgtgtg 180
cagggcttgg agtcgtcgtg gggcatgctg aggacgtgcc ctagttcatg ggccaggggtg 240
tgggcccgcct ggagcccctc atcctcgatc acggagcagc ttttggtggg gtcacaaatg 300
gtcccgatgt ctgccacacc caggggtgtca cacagcccct cctgcccaca gaagttctgt 360
ctggtgagca ggatggcogt gtcgtagtgc tctgggtggc ggtcgctggg ctggttgaaa 420
cgccgctgcc agttgcagaa gttacgcagt gtaagcccc cattgtcgga cacctctggg 480
ccccattttt catctttctac gatcagcact tttaccacca tcangttgat ggaattcttg 540
atgctgggggt gcttgtagaa tcgggcttgc cacgaaaatt aacctcagga tgtggttctg 600
caggtcggcc cgtaaagggc gccatggacg catcggccac caacagcgtt tc 652

<210> 95

<211> 716

<212> DNA

<213> Homo sapiens

<220>

<221> Misc_feature

<222> (578)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (658)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (666)

<223> N is any nucleic acid

<220>

<221> Misc_feature

<222> (678)

<223> N is any nucleic acid

<400> 95

taagtttgct agtcctttgc aaacagactg acgtgagtg tcctgtctga gtcaataagt 60
gcacttttac cttttaacct atgccctcta cttgaaccgc agcaaggctc agtcactgg 120
acagttgatg atagggctctg ccgccccata ccctctcctc ttccccctta ggaatttgtg 180
cagtactgga ggggttgccg caatgggagg cctgggtggg ccgtgctgcc ttgatatggc 240

caagggaccc agtcaccaca gtggagaccc ttgtctgcac ctcaagtaccg catgtccagg 300
agcacaagac tggcccctgc cccctgaat cacagggggc acagctggct ttcgcagggc 360
ttggcatcct cgggtttcag agccttggtg caggtggcag aggcctggcc ggaggggtcc 420
ctgcactcta cagttgcct ctgccagccg gccccgcagg tgctagagca ctcaagaccag 480
tccccagca cccactgtgc gtggagcagc ggctggatga tgttggtggt tgctctctct 540
ttgctgctct gcatgctaaa agtcacgtca ttaggaanca aagaaggtgt atttgacttt 600
ttggggggaa gaacctcgcc caggactgtc aggagctgca ctgtcagaag gctctgcnaa 660
ggcccngaag ctctgcangc gctccagggt ggcgatggag ccgtgtactt caggat 716

<210> 96
<211> 543
<212> DNA
<213> Homo sapiens

<400> 96
ggcataagat cacacttttag ttcagagaca catttgcata aatacttgaa atggatccac 60
ccctgcagggt ggcagcctga gaacatggcg ctgcaggggg accagggcag cgtctggttc 120
agggtggacga acagcgggtgc catcacgtgg tgcttgccca tggcctcgaa gagccgtgtg 180
cagggcttgg agtcgtcgtg gggcatgctg aggacgtgcc ctagtcatg ggccaggggtg 240
tgggcccgtg gagccctcat cctcgatcac ggagcagctt ttgttggggt cacaaatggg 300
cccgatgtct gccacacca ggggtgtcaca cagcccctcc tgcccacaga agttctgtct 360
ggtgagcagg atggcctgt cgtagtgtct tgggtggcgg tcgctgggct ggttgaaacg 420
ccgctgccag ttgcagaagt tacgcagtgt aaggcccca ttgtcggaca gctctggggc 480
ccatttttca tcttctacga tcagcacttt taaccacatc aggttgatgg aattottgat 540
gcc 543

<210> 97
<211> 377
<212> DNA
<213> Mus musculus

<400> 97
gcaaagtgcc accacccttc ggatccaaaa ctagaagcaa gaggtttgtg tccgaggctc 60
gcttcgtgga aacacttctg gtggctgatg cgtccatggc tgccttctat gggaccgacc 120
tgcagaacca catcctcag gtgatgtcaa tggcagcccg aatctacaag cccccagca 180
tcaagaactc cgtcaacctt gtgggtggtga aagtgtaat agtgaagag gaaggtggg 240
gcccggagggt gtccggacaac ggggggctca cactgcgcaa cttctgcagc tggcaacggc 300

```
<210> 98
<211> 432
<212> DNA
<213> Rattus norvegicus
```

```
<220>
<221> Misc_feature
<222> (214)
<223> N is any nucleic acid
```

```
<210> 99
<211> 354
<212> DNA
<213> Mus musculus
```

$\langle 210 \rangle$	100
$\langle 211 \rangle$	389

<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (136)
<223> N is any nucleic acid

<400> 100
ttgtgcccag aagacactgg ccctggggcc tgggttgagt tcaaaaccaa aagaaagaag 60
aaaagtgctg taaattcggg atttctccac cggatgctcc tgcttccgca tgggtgtcac 120
ctccatgccg ttctncctc tttctaggga aaagcttcag ggagcagcag tgtgagaagt 180
ataatgccta caattacact gacatggacg ggaatctcct gcagtgggtc cccaagtatg 240
ctgggggtgtc cccccgggac cgcctggcaa gttgttctgc cgagcccgga ggaggagcga 300
gttcaaagtg ttcgaggcca aggtgagaat caccctgggg gacttcagat ccagagatgg 360
ggggagggaa ggtcggcctg ttccccaca 389

<210> 101
<211> 305
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (128)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (146)
<223> N is any nucleic acid

<400> 101
catttaagtt tgctagtcct ttgcaaacag actgacgtg agtgtcctgt ctgagtcaat 60
aagtgcactt ttaccttitta acctatgccc tctacttgaa cccgagcaag gtccagtcca 120
ctggacangt tgatgatagg gtctgnogcc ccataccctc tcctcttccc ccttaggaat 180
ttgtgcagta ctggaggggt tgcggcaatg ggaggcctgg gtgggccgtg ctgccttgat 240
atggccaagg gacccagtca ccacagtgga gacccttgtc tgcacctcag taccgcatgt 300
ccagg 305

<210> 102
<211> 152
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (105)

<223> N is any nucleic acid

<220>

<221> Misc feature

<222> (122)

<223> N is any nucleic acid

<220>

<221> Misc feature

<222> (135)

<223> N is any nucleic acid

<400> 102

atcgtagaag atgaaaaatg gggcccagag gtgtccgaca atgggggggt tacactgcgt 60

aactttctgca actggcagcg gcgtttcaac cagcccagcg accgncaccc agagcactac 120

gncacggcca tcctnctcac cagacagaac tt 152

<210> 103

<211> 632

<212> DNA

<213> Homo sapiens

<400> 103

tttaataata ataatgcccg gggctttatt atgctgtatc actgctcaga ggtaataat 60

cctcactaac tatectatca aatttgcaac tggcagtita ctctgatgat tcaactcctt 120

ttctatctac ccccataatc ccaccttact gatacacctc actggttact ggcaagatac 180

gctggatccc tccagccttc ttgctttccc tgcaccagcc ctctctcact ttgccttgcc 240

ctcaaagcta acaccactta aaccacttaa ctgcattctg ccattgtgca aaagtctatg 300

aaatgttttag gtttctttaa aggatcacag ctctcatgag ataacacccc tccatcatgg 360

gacagacact tcaagcttct ttttttgtaa cccttcccac aagtcttaga acatgatgac 420

cactccccca gctgccactg ggggcagga tggctctgcac aaggctctggg gctggctggc 480

ttcacttcct ttgcacactc ggaagcaggc tgtccattaa tgtctoggca ttctaccagt 540

cttctctgcc aacccaattc acatgactta gaacattcgc cccactcttc aatgacccat 600

gctgaaaaag tggggatagc attgaaagaa tc 632

<210> 104

<211> 519

<212> DNA

<213> Homo sapiens

<400> 104

tttttttcta aacttgtaat agatgtaaca aaagaaataa taataataat gcccgggggt 60

ttattatgct atatcactgc tcagaggtta ataatcctca ctaactatcc tatcaaattt 120

```
<210> 105
<211> 475
<212> DNA
<213> Homo sapiens
```

```
<210> 106
<211> 455
<212> DNA
<213> Homo sapiens
```

```
<400> 106
aataataata atgcccgagg ctttattatg ctgtatcact gctcagaggt taataatcct 60
cactaactat cctatcaaat ttgcaactgg cagtttactc tgatgattca aotccttttc 120
tatctacccc cataatccca ccttactgat acacctcact ggttactggc aagatacgct 180
ggatccctcc agccttcttg ctttccctgc accagccctt cctcactttg ccttgccctc 240
aaagctaaca ccacttaaac cacttaactg cattctgcca ttgtgcaaaa gtctatgaaa 300
tgtttaggtt tctttaaagg atcacagctc tcatgagata acaccctcc atcatgggac 360
agacacttca agottctttt tttgtaacct ttcccacagg tcttagaaca tgatgaccac 420
tccccagct gccactgggg gcagggatgg tctgg                                     455
```

<210> 107
<211> 515
<212> DNA
<213> Homo sapiens

<400> 107
aacccttccc acaggtctta gaacatgatg accactcccc cagctgccac tgcggggcag 60
ggatgggtctg cacaaggtct ggtgctggct ggcttcactt cctttgcaca ctcggaagca 120
ggctgtccat taatgtctcg gcattcttcc agtcttctct gccaacccaa ttcacatgac 180
ttagaacatt cgccccactc ttcaatgacc catgctgaaa aagtggggat agcattgaaa 240
gattccttct tcttctttac gaagtaggtg tatttaattt taggtcgaag ggcattgcc 300
cagtaagaac ctggatggtc aagggtctct tggagcaggc taaagctgcg aattctttcc 360
aatgccgcag aggagccgct gtacctcaag acaacacctt tgtacataat gtcttgcctc 420
aagggtggaca aagtgtagtc accataaaga atatatgtgc catcagcagc ttttgatggc 480
aggaagctgt cattgttctt ggatccctct gttcc 515

<210> 108
<211> 359
<212> DNA
<213> Homo sapiens

<400> 108
acttcgtaaa gaagaagaag gaatctttca atgctatccc cactttttca gcatgggtca 60
ttgaagagtg gggcgaatgt tctaagtcac gtgaattggg ttggcagaga agactggtag 120
aatgccgaga cattaatgga cagcctgctt ccgagtgtgc aaaggaagtg aagccagcca 180
gcaccagacc ttgtgcagac catccctgcc ccagtgga gctgggggaa gtgggtcatca 240
tgtttctaaga cctgcgggaa gggttacaaa aaaagaagct ttgaagtgtc ttgtcccatg 300
atggaggggt gttatctcat tgagagctgt gatcctttaa agaaacctaa acatttcat 359

<210> 109
<211> 320
<212> DNA
<213> Homo sapiens

<400> 109
cagagaacat tcgccccact cttcaatgac ccatgctgaa aaagtgggga tagcattgaa 60
agattccttc ttcttcttta cgaagtaggt gtatttaatt ttaggtcgaa gggcattgcc 120
cacagtaaga acctggatgg tcaagggtc tttgagaggg cttaaagctgc gaattctttc 180
caatgccgca gaggagccgc tgtacctcaa gacaacacct ttgtacataa tgtcttgctc 240
taagggtggac aaagtgtagt caccattaag aatatatgtg ccatcagcag ctttgatggc 300

aagaaagctg cccttgttcc

320

<210> 110
<211> 316
<212> DNA
<213> Homo sapiens

<400> 110
aatgccgaga cattaatgga cagcctgctt ccgagtgtgc aaaggaagtg aagccagcca 60
gcaccagacc ttgtgcagac catccctgcc cccagtggca gctgggggag tggatcatcat 120
gttctaagac ctgtgggaag ggttacaaaa aaagaagctt gaagtgtctg tcccatgatg 180
gaggggtggt atctcatgag agctgtgatc ctttaaagaa acctaaacat ttcatagact 240
tttgacaaat ggcagaatgc agttaagtgg tttaagtggg gttagctttg agggcaaggc 300
aaagtgagga agggct 316

<210> 111
<211> 318
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (4)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (6)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (261)
<223> N is any nucleic acid

<400> 111
agantnccga gacattaatg gacagcctgc ttccgagtgt gcaaaggaag tgaagccagc 60
cagcaccaga ccttggtcag accatccctg cccccagtgg cagctggggg agtgggtcatc 120
atgttctaag acctgtggga agggttacaa aaaaagaagc ttgaagtgtc tgtcccatga 180
tggaggggtg ttatctcatg agagctgtga tcctttaaag aaacctaaac atttcataga 240
cttttgcaca atggcagaat ncagttaagt ggtttaagtg gtgtagctt tgagggaag 300
gcaaagtgag gaagggt 318

<210> 112
<211> 314

<212> DNA
<213> Homo sapiens

<400> 112
tttttttttct aaacttgtaa tagatgtaac aaaagaaata ataataataa tgcccggggc 60
tttattatgc tatatcactg ctacagaggtt aataatcctc actaactatc ctatcaaatt 120
tgcaactggc agtttactct gatgattcaa ctcccttttct atctaccccc ataatcccac 180
cttactgata cacctcactg gttactggca agatacgtg gatccctcca gccttcttgc 240
tttccctgca ccagcccttc ctactttgc cttgccctca aagctaacac cacttaaacc 300
acttaactgc attc 314

<210> 113
<211> 316
<212> DNA
<213> Homo sapiens

<400> 113
aaggaatcct tcaatgctat cccactgtt tcagcatggg tcattgaaga gtggggcgaa 60
tgttctaagt catgtgaatt gggttggcag aaaagacttg tagaatgccg agacattaat 120
ggacagcctg cgtccgagtg tgcaaaggaa gtgaagccag ccagcaccag accttgtgca 180
gaccatccct gccccagtg gcagctgggg ggagtggcca tcatgttcta agacctgtgg 240
gaaggggtac aaaaaaagag gcgtgaagtg tctgtcccat gatggagggg tttatctcat 300
gagaactgtg atcctt 316

<210> 114
<211> 265
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (10)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (11)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (15)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (97)
<223> N is any nucleic acid

WU 2025/11/11 14:33:53

<220>
<221> Misc_feature
<222> (231)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (249)
<223> N is any nucleic acid

<400> 114
agcagtttan ncctntcaaa gagcccttga ccatccaggt tcttactgtg ggcaatgccc 60
ttcgacctaa aattaaatac acctacttcg taaagangaa gaaggaatct ttcaatgcta 120
tccccacttt ttcagcatgg gtcattgaag agtggggcga atgttctaag tcatgtgaat 180
tggtttggca gagaagactg gtagaatgcc gagacattaa tggacagcct ncttcogagt 240
gtgcaaagna agtgaagcca gccag 265

<210> 115
<211> 334
<212> DNA

<213> Mus musculus

<400> 115
cgtttgtgga ggaaacggtt ccacatgcaa gaagatgtca ggaatagtca ctagtacaag 60
acctgggtat catgacattg tcacaattcc tgctggagcc accaacattg aagtgaagaca 120
tcggaatcaa aggggggtcca gaaacaatgg cagctttctg gctattagag ccgctgatgg 180
tacctatatt ctgaatggaa acttcactct gtccacacta gagcaagacc tcacctacaa 240
aggtagctgc ttaaggtaca gtggttcctc ggctgcgctg gagagaatcc gcagcttttag 300
tcactcaaa gaacccttaa ccatccaggt tctt 334

<210> 116
<211> 528
<212> DNA
<213> Mus musculus

<400> 116
agaattcctg gatgatggtc atggtaattg cttccgtggt aggtctagca aacaattacc 60
atgaccatca tccaggaatt ctgtgatggt ggctgacgtg catttggaacc agggcttgga 120
tgcatcgatg ctggttaagga ttgaagacat taaacgcttg tcttctgtag taccgaagtt 180
ctcttcacag aatttggaat cgtcatgaga aaggccaagt agatgcccac tttcatgagc 240
cacagtgaag gctgcatgga ggccatcatc ttcaatcact gcacagctgc gctccggaga 300
acatatggtc ccaacgtctg ccattcccag ggtgtcacat gaatgatgcc cacataaato 360

```
<210> 117
<211> 438
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> Misc_feature
<222> (432)
<223> N is any nucleic acid
```

```
<210> 118
<211> 455
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> Misc_feature  
<222> (452)  
<223> N is any nucleic acid
```

```
<400> 118
atttgatagg atagttagtg aggattatta acctctgagc agtgatatag cataataaag 60
ccccgggcat tattattatt atttcttttg ttacatctat tacaagttta gaaaaaaca 120
agcaattgtc aaaaaaagtt agaactatta caaccctgt ttcctggtac ttatcaaata 180
cttagtatca tgggggttgg gaaatgaaaa gtaggagaaa agtgagattt tactaagacc 240
```

tggttttactt tacctcacta acaatggggg gagaaaggag tacaaatagg atctttgacc 300
 agcactgttt atggctgcta tggtttcaga gaatgtttat acattatttc taccgaggat 360
 taaaacttcc agattgtttc aacatggaga ggaaaggctc aggcaacgtg gaaataacgc 420
 aaatgggctt cctcttttcc tttttgggac cntct 455

<210> 119
 <211> 380
 <212> DNA
 <213> Homo sapiens

<220>
 <221> Misc_feature
 <222> (25)
 <223> N is any nucleic acid

<220>
 <221> Misc_feature
 <222> (85)
 <223> N is any nucleic acid

<220>
 <221> Misc_feature
 <222> (190)
 <223> N is any nucleic acid

<220>
 <221> Misc_feature
 <222> (295)
 <223> N is any nucleic acid

<220>
 <221> Misc_feature
 <222> (361)
 <223> N is any nucleic acid

<400> 119
 aatttgatag gatagttagt gaggnattatt aacctctgag cagtgatata gcataataaa 60
 gccccgggca ttattattat tattnctttt gttacatcta ttacaagttt agaaaaaaca 120
 aagcaattgt caaaaaaagt tagaactatt acaaccctg tttcctggta cttatcaaat 180
 acttagtatn atggggggtg ggaaatgaaa agtaggagaa aagtgagatt ttactaagac 240
 ctgttttact ttacctcact aacaatgggg ggagaaagga gtacanatag gatctttgac 300
 cagcactgtt tatggctgct atggtttcag aggaatgttt atacattatt totaccgaga 360
 nttaaaactt cagattgttc 380

<210> 120
 <211> 199
 <212> DNA
 <213> Mus musculus

119 380 120 199

<400> 120
caatggcagc ttgctggcta taatagccgc tgatggtacc tatatactga atggaaactt 60
cactctgtcc aactagagc aagacctcac ctacgaatgt actgtcttaa ggtacagtgg 120
ttcctcggct ggcaggaaa gagtccgcag ctttagtcca ctcaaataac ccttaaccat 180
ccaggttctt atggtagga 199

<210> 121
<211> 439
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (198)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (199)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (203)
<223> N is any nucleic acid

<400> 121
atttaacctc tgagcagtga tatagcataa taaagccccg ggcattatta ttattatttc 60
ttttgttaca tctattacaa gtttagaaaa aacaaagcaa ttgtcaaaaa aagttagaac 120
tattacaacc cctgtttcct ggtacttata aaatacttag tatcatgggg gttgggaaat 180
gaaaagtagg aggaaagnng agnttttact aagacctgtt ttacctttac ctactaaca 240
atgggggggag aaaggagtac aaataggatc ttgaccagc actgtttatg gctgctatgg 300
tttcagagaa tgtttataca ttatttctac cgagaattaa aacttcagat tgttcaacat 360
ggagagaaa gctcagcaac gtggaaataa cgcaaagggg cttccccctt tccctttttt 420
gggaccatct caggtcctt 439

<210> 122
<211> 471
<212> DNA
<213> Homo sapiens

<400> 122
cagagtaaac tgccagttgc aaatttgata ggatagttag tgaggattat taacctctga 60
gcagtgatat agcataataa agccccgggc attattatta ttattatttc ttttgttaca 120
tctattacaa gtttagaaaa aacaaagcaa ttgtcaaaaa aagttagaac tattacaacc 180

cctgtttcct ggtacttatac aaatacttag tatcatgggg gttgggaaat gaaaagtagg 240
agaaaagtga gattttacta agacctgttt tacttttcct cactaacaat ggggggagaa 300
aggagtacaa ataggatctt tgaccagcac tgtttatggc tgctatgggt tcagagaatg 360
tttatacatt atttctaccc gagaattaaa acttcagatt ggttcaacat gagagaaagg 420
ctccagcaac gtgaaattaa cgccaatggc ttctctcttc ctttttttgg a 471

<210> 123
<211> 424
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (39)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (51)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (395)
<223> N is any nucleic acid

<400> 123
cgtgaggatt attaacctct gagcagtgat atagcatant aaagccccgg nattattatt 60
attatttctt ttgttacatc tattacaagt ttagaaaaaa caaagcaatt gtcaaaaaaa 120
gttagaacta ttacaacccc tgtttcctgg tacttatcaa atacttagta tcatgggggt 180
tgggaaatga aaagtaggag aaaagtgaga ttttactaag acctgtttta ctttacctca 240
ctaacaatgg ggggagaaaag gagtacaaat aggatctttg accagcactg tttatggctg 300
ctaattggtt cagagaatgt ttatacatta tttctacccg agaattaaaa cttcagattg 360
ttcaacctga gagaaaggct cagcaacgtg aatnacgcc aatggcttcc tctttccctt 420
tttg 424

<210> 124
<211> 458
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (453)
<223> N is any nucleic acid

<400> 124
 tacatctatt acaagtttag aaaaaacaaa gcaattgtca aaaaaagtta gaactattac 60
 aacccctggt tcttggtact tatcaaatac ttagtatcat gggggttggg aaatgaaaag 120
 taggagaaaa gtgagatttt actaagacct gttttacttt acctcactaa caatgggggg 180
 agaaaggagt acaaatagga tctttgacca gcactgttta tggctgctat ggtttcagag 240
 aatgtttata cattatttct accgagaatt aaaacttcag attgttcaac atgagagaaa 300
 ggctcagcaa cgtgaaataa cgcaaaggc ttcctctttc cttttttgga ccacagccag 360
 ccttggtctc cttgcagtgg ctacatgatt acatcatttc tggataatag tcatggggaa 420
 tgtttgatgg acaagctcag aatcccatac agntccca 458

<210> 125
 <211> 4014
 <212> DNA
 <213> Homo sapiens

<220>

<221> CDS

<222> (466)..(3366)

<223>

<400> 125
 cccacgcgtc cgcccacgcg tccggcggct ccgagccagg ggctattgca aagccagggt 60
 gcgctaccgg acggagaggg gagagccctg agcagagtga gcaacatcgc agccaaggcg 120
 gaggcgaag aggggcgcca ggcaccaatc tccgcgttgc ctcagccccg gaggcgcccc 180
 agagcgcttc ttgtcccagc agagccactc tgcctgcgcc tgcctctcag tgtctccaac 240
 tttgcgctgg aagaaaaact tcccgcgcgc cggcagaact gcagcgctc ctcttagtga 300
 ctccgggagc ttcggctgta gccggctctg cgcgccttc caacgaataa tagaaattgt 360
 taattttaac aatccagagc aggccaacga ggctttgctc tcccgaaccg aactaaagct 420
 ccctcgctcc gtgcgctgct acgagcgggtg tctcctgggg ctcca atg cag cga gct 477
 Met Gln Arg Ala
 1
 gtg ccc gag ggg ttc gga agg cgc aag ctg ggc agc gac atg ggg aac 525
 Val Pro Glu Gly Phe Gly Arg Arg Lys Leu Gly Ser Asp Met Gly Asn
 5 10 15 20
 gcg gag cgg gct ccg ggg tct cgg agc ttt ggg ccc gta ccc acg ctg 573
 Ala Glu Arg Ala Pro Gly Ser Arg Ser Phe Gly Pro Val Pro Thr Leu

25								30					35					
ctg	ctg	ctc	gcc	gcg	gcg	cta	ctg	gcc	gtg	tcg	gac	gca	ctc	ggg	cgc	621		
Leu	Leu	Leu	Ala	Ala	Ala	Leu	Leu	Ala	Val	Ser	Asp	Ala	Leu	Gly	Arg			
			40					45					50					
ccc	tcc	gag	gag	gac	gag	gag	cta	gtg	gtg	ccg	gag	ctg	gag	cgc	gtc	669		
Pro	Ser	Glu	Glu	Asp	Glu	Glu	Leu	Val	Val	Pro	Glu	Leu	Glu	Arg	Val			
		55					60					65						
ccg	gga	cac	ggg	acc	acg	cgc	ctc	cgc	ctg	cac	gcc	ttt	gac	cag	cag	717		
Pro	Gly	His	Gly	Thr	Thr	Arg	Leu	Arg	Leu	His	Ala	Phe	Asp	Gln	Gln			
	70					75					80							
ctg	gat	ctg	gac	gtg	ccg	ccc	gac	agc	agc	ttt	ttg	gcg	ccc	ggc	ttc	765		
Leu	Asp	Leu	Asp	Val	Pro	Pro	Asp	Ser	Ser	Phe	Leu	Ala	Pro	Gly	Phe			
85					90					95					100			
acg	ctc	cag	aac	gtg	ggg	cgc	aaa	tcc	ggg	tcc	gac	acc	ccg	ctt	ccg	813		
Thr	Leu	Gln	Asn	Val	Gly	Arg	Lys	Ser	Gly	Ser	Asp	Thr	Pro	Leu	Pro			
				105					110					115				
gaa	acc	gac	ctg	gcg	cac	tgc	ttc	tac	tcc	ggc	acc	gtg	aat	ggc	gat	861		
Glu	Thr	Asp	Leu	Ala	His	Cys	Phe	Tyr	Ser	Gly	Thr	Val	Asn	Gly	Asp			
			120					125					130					
ccc	agc	tcg	gct	gcc	gcc	ctc	agc	ctc	tgc	gag	ggc	gtg	cgc	ggc	gcc	909		
Pro	Ser	Ser	Ala	Ala	Ala	Leu	Ser	Leu	Cys	Glu	Gly	Val	Arg	Gly	Ala			
		135					140					145						
ttc	tac	ctg	ctg	ggg	gag	gcg	tat	ttc	atc	cag	ccg	ctg	ccc	gcc	gcc	957		
Phe	Tyr	Leu	Leu	Gly	Glu	Ala	Tyr	Phe	Ile	Gln	Pro	Leu	Pro	Ala	Ala			
	150					155					160							
agc	gag	cgc	ctc	gcc	acc	gcc	gcc	cca	ggg	gag	aag	ccg	ccg	gca	cca	1005		
Ser	Glu	Arg	Leu	Ala	Thr	Ala	Ala	Pro	Gly	Glu	Lys	Pro	Pro	Ala	Pro			
165					170				175						180			
cta	cag	ttc	cac	ctc	ctg	cgg	cgg	aat	cgg	cag	ggc	gac	gta	ggc	ggc	1053		
Leu	Gln	Phe	His	Leu	Leu	Arg	Arg	Asn	Arg	Gln	Gly	Asp	Val	Gly	Gly			
				185					190					195				
acg	tgc	ggg	gtc	gtg	gac	gac	gag	ccc	cgg	ccg	act	ggg	aaa	gcg	gag	1101		
Thr	Cys	Gly	Val	Val	Asp	Asp	Glu	Pro	Arg	Pro	Thr	Gly	Lys	Ala	Glu			
			200					205					210					
acc	gaa	gac	gag	gac	gaa	ggg	act	gag	ggc	gag	gac	gaa	ggg	cct	cag	1149		
Thr	Glu	Asp	Glu	Asp	Glu	Gly	Thr	Glu	Gly	Glu	Asp	Glu	Gly	Pro	Gln			
		215					220					225						
tgg	tcg	ccg	cag	gac	ccg	gca	ctg	caa	ggc	gta	gga	cag	ccc	aca	gga	1197		
Trp	Ser	Pro	Gln	Asp														

ggt cta aag cat tac ctt ctc acg ttg ttt tcg gtg gca gcc aga ttg	1341
Gly Leu Lys His Tyr Leu Leu Thr Leu Phe Ser Val Ala Ala Arg Leu	
280 285 290	
tac aaa cac ccc agc att cgt aat tca gtt agc ctg gtg gtg gtg aag	1389
Tyr Lys His Pro Ser Ile Arg Asn Ser Val Ser Leu Val Val Val Lys	
295 300 305	
atc ttg gtc atc cac gat gaa cag aag ggg ccc gaa gtg acc tcc aat	1437
Ile Leu Val Ile His Asp Glu Gln Lys Gly Pro Glu Val Thr Ser Asn	
310 315 320	
gct gcc ctc act ctg cgg aac ttt tgc aac tgg cag aag cag cac aac	1485
Ala Ala Leu Thr Leu Arg Asn Phe Cys Asn Trp Gln Lys Gln His Asn	
325 330 335 340	
cca ccc agt gac cgg gat gca gag cac tat gac aca gca att ctt ttc	1533
Pro Pro Ser Asp Arg Asp Ala Glu His Tyr Asp Thr Ala Ile Leu Phe	
345 350 355	
acc aga cag gac ttg tgt ggg tcc cag aca tgt gat act ctt ggg atg	1581
Thr Arg Gln Asp Leu Cys Gly Ser Gln Thr Cys Asp Thr Leu Gly Met	
360 365 370	
gct gat gtt gga act gtg tgt gat ccg agc aga agc tgc tcc gtc ata	1629
Ala Asp Val Gly Thr Val Cys Asp Pro Ser Arg Ser Cys Ser Val Ile	
375 380 385	
gaa gat gat ggt tta caa gct gcc ttc acc aca gcc cat gaa tta ggc	1677
Glu Asp Asp Gly Leu Gln Ala Ala Phe Thr Thr Ala His Glu Leu Gly	
390 395 400	
cac gtg ttt aac atg cca cat gat gat gca aag cag tgt gcc agc ctt	1725
His Val Phe Asn Met Pro His Asp Asp Ala Lys Gln Cys Ala Ser Leu	
405 410 415 420	
aat ggt gtg aac cag gat tcc cac atg atg gcg tca atg ctt tcc aac	1773
Asn Gly Val Asn Gln Asp Ser His Met Met Ala Ser Met Leu Ser Asn	
425 430 435	
ctg gac cac agc cag cct tgg tct cct tgc agt ggc tac atg att aca	1821
Leu Asp His Ser Gln Pro Trp Ser Pro Cys Ser Gly Tyr Met Ile Thr	
440 445 450	
tca ttt ctg gat aat ggt cat ggg gaa tgt ttg atg gac aag cct cag	1869
Ser Phe Leu Asp Asn Gly His Gly Glu Cys Leu Met Asp Lys Pro Gln	
455 460 465	
aat ccc ata cag ctc cca ggc gat ctc cct ggc acc tcg tac gat gcc	1917
Asn Pro Ile Gln Leu Pro Gly Asp Leu Pro Gly Thr Ser Tyr Asp Ala	
470 475 480	
aac cgg cag tgc cag ttt aca ttt ggg gag gac tcc aaa cac tgc cct	1965
Asn Arg Gln Cys Gln Phe Thr Phe Gly Glu Asp Ser Lys His Cys Pro	
485 490 495 500	
gat gca gcc agc aca tgt agc acc ttg tgg tgt acc ggc acc tct ggt	2013
Asp Ala Ala Ser Thr Cys Ser Thr Leu Trp Cys Thr Gly Thr Ser Gly	
505 510 515	
ggg gtg ctg gtg tgt caa acc aaa cac ttc ccg tgg gcg gat ggc acc	2061
Gly Val Leu Val Cys Gln Thr Lys His Phe Pro Trp Ala Asp Gly Thr	

520	525	530	
agc tgt gga gaa ggg aaa tgg tgt atc aac ggc aag tgt gtg aac aaa Ser Cys Gly Glu Gly Lys Trp Cys Ile Asn Gly Lys Cys Val Asn Lys 535 540 545			2109
aac cac aga aag cat ttt gat acg cct ttt cat gga agc tgg gga atg Asn His Arg Lys His Phe Asp Thr Pro Phe His Gly Ser Trp Gly Met 550 555 560			2157
tgg ggg cct tgg gga gac tgt tcg aga acg tgc ggt gga gga gtc cag Trp Gly Pro Trp Gly Asp Cys Ser Arg Thr Cys Gly Gly Gly Val Gln 565 570 575 580			2205
tac acg atg agg gaa tgt gac aac cca gtc cca aag aat gga ggg aag Tyr Thr Met Arg Glu Cys Asp Asn Pro Val Pro Lys Asn Gly Gly Lys 585 590 595			2253
tac tgt gaa ggc aaa cga gtg cgc tac aga tcc tgt aac ctt gag gac Tyr Cys Glu Gly Lys Arg Val Arg Tyr Arg Ser Cys Asn Leu Glu Asp 600 605 610			2301
tgt cca gac aat aat gga aaa acc ttt aga gag gaa caa tgt gaa gca Cys Pro Asp Asn Asn Gly Lys Thr Phe Arg Glu Glu Gln Cys Glu Ala 615 620 625			2349
cac aac gag ttt tca aaa gct tcc ttt ggg agt ggg cct gcg gtg gaa His Asn Glu Phe Ser Lys Ala Ser Phe Gly Ser Gly Pro Ala Val Glu 630 635 640			2397
tgg att ccc aag tac gct ggc gtc tca cca aag gac agg tgc aag ctc Trp Ile Pro Lys Tyr Ala Gly Val Ser Pro Lys Asp Arg Cys Lys Leu 645 650 655 660			2445
atc tgc caa gcc aaa ggc att ggc tac ttc ttc gtt ttg cag ccc aag Ile Cys Gln Ala Lys Gly Ile Gly Tyr Phe Phe Val Leu Gln Pro Lys 665 670 675			2493
gtt gta gat ggt act cca tgt agc cca gat tcc acc tct gtc tgt gtg Val Val Asp Gly Thr Pro Cys Ser Pro Asp Ser Thr Ser Val Cys Val 680 685 690			2541
caa gga cag tgt gta aaa gct ggt tgt gat cgc atc ata gac tcc aaa Gln Gly Gln Cys Val Lys Ala Gly Cys Asp Arg Ile Ile Asp Ser Lys 695 700 705			2589
aag aag ttt gat aaa tgt ggt gtt tgc ggg gga aat gga tct act tgt Lys Lys Phe Asp Lys Cys Gly Val Cys Gly Gly Asn Gly Ser Thr Cys 710 715 720			2637
aaa aaa ata tca gga tca gtt act agt gca aaa cct gga tat cat gat Lys Lys Ile Ser Gly Ser Val Thr Ser Ala Lys Pro Gly Tyr His Asp 725 730 735 740			2685
atc atc aca att cca act gga gcc acc aac atc gaa gtg aaa cag cgg Ile Ile Thr Ile Pro Thr Gly Ala Thr Asn Ile Glu Val Lys Gln Arg 745 750 755			2733
aac cag agg gga tcc agg aac aat ggc agc ttt ctt gcc atc aaa gct Asn Gln Arg Gly Ser Arg Asn Asn Gly Ser Phe Leu Ala Ile Lys Ala 760 765 770			2781

20250909 14:22:22

gct gat ggc aca tat att ctt aat ggt gac tac act ttg tcc acc tta Ala Asp Gly Thr Tyr Ile Leu Asn Gly Asp Tyr Thr Leu Ser Thr Leu 775 780 785	2829
gag caa gac att atg tac aaa ggt gtt gtc ttg agg tac agc ggc tcc Glu Gln Asp Ile Met Tyr Lys Gly Val Val Leu Arg Tyr Ser Gly Ser 790 795 800	2877
tct gcg gca ttg gaa aga att cgc agc ttt agc cct ctc aaa gag ccc Ser Ala Ala Leu Glu Arg Ile Arg Ser Phe Ser Pro Leu Lys Glu Pro 805 810 815 820	2925
ttg acc atc cag gtt ctt act gtg ggc aat gcc ctt cga cct aaa att Leu Thr Ile Gln Val Leu Thr Val Gly Asn Ala Leu Arg Pro Lys Ile 825 830 835	2973
aaa tac acc tac ttc gta aag aag aag aag gaa tct ttc aat gct atc Lys Tyr Thr Tyr Phe Val Lys Lys Lys Lys Glu Ser Phe Asn Ala Ile 840 845 850	3021
ccc act ttt tca gca tgg gtc att gaa gag tgg ggc gaa tgt tct aag Pro Thr Phe Ser Ala Trp Val Ile Glu Glu Trp Gly Glu Cys Ser Lys 855 860 865	3069
tca tgt gaa ttg ggt tgg cag aga aga ctg gta gaa tgc cga gac att Ser Cys Glu Leu Gly Trp Gln Arg Arg Leu Val Glu Cys Arg Asp Ile 870 875 880	3117
aat gga cag cct gct tcc gag tgt gca aag gaa gtg aag cca gcc agc Asn Gly Gln Pro Ala Ser Glu Cys Ala Lys Glu Val Lys Pro Ala Ser 885 890 895 900	3165
acc aga cct tgt gca gac cat ccc tgc ccc cag tgg cag ctg ggg gag Thr Arg Pro Cys Ala Asp His Pro Cys Pro Gln Trp Gln Leu Gly Glu 905 910 915	3213
tgg tca tca tgt tct aag acc tgt ggg aag ggt tac aaa aaa aca agc Trp Ser Ser Cys Ser Lys Thr Cys Gly Lys Gly Tyr Lys Lys Thr Ser 920 925 930	3261
ttg aag tgt ctg tcc cat gat gga ggg gtg tta tct cat gac agc tgt Leu Lys Cys Leu Ser His Asp Gly Gly Val Leu Ser His Asp Ser Cys 935 940 945	3309
gat cct tta aag aaa cct aaa cat ttc ata gac ttt tgc aca atg gca Asp Pro Leu Lys Lys Pro Lys His Phe Ile Asp Phe Cys Thr Met Ala 950 955 960	3357
gaa tgc agt taagtggttt aagtgggtgtt agctttgagg gcaaggcaaa Glu Cys Ser 965	3406
gtgaggaagg gctggtgcag ggaaagcaag aaggctggag ggatccagcg tatcttccca	3466
gtaaccagtg aggtgtatca gtaaggtggg attatggggg tagatagaaa aggagttgaa	3526
tcatcagagt aaactgccag ttgcaaattt gataggatag ttagtgagga ttattaacct	3586
ctgagcagtg atatagcata ataaagcccc gggcattatt attattattt cttttgttac	3646
atctactaca agtttagaaa aaacaaagca attgtcaaaa aaagttagaa ctattacaac	3706

ccctgcttcc tgggtacttat caaatactta gtatcatggg ggttgggaaa tgaaaagtag 3766
gagaaaagtg agattttact aagacctgtt ttactttacc tcactaaaca atggggggag 3826
aaaggagtac aaataggatc ttttgaccag cactgtttat gggctgctat ggtttcagag 3886
aacgtctata cattatttct accgaggatt taaaacttcc agattgttcc aacatggaga 3946
ggaaaggctc aggcaacgtg gaaataacgc aatgggcttc ccccttcctt ttttgggacc 4006
cactccag 4014

<210> 126
<211> 967
<212> PRT
<213> ITGL-TSP

<400> 126

Met Gln Arg Ala Val Pro Glu Gly Phe Gly Arg Arg Lys Leu Gly Ser
1 5 10 15

Asp Met Gly Asn Ala Glu Arg Ala Pro Gly Ser Arg Ser Phe Gly Pro
20 25 30

Val Pro Thr Leu Leu Leu Leu Ala Ala Ala Leu Leu Ala Val Ser Asp
35 40 45

Ala Leu Gly Arg Pro Ser Glu Glu Asp Glu Glu Leu Val Val Pro Glu
50 55 60

Leu Glu Arg Val Pro Gly His Gly Thr Thr Arg Leu Arg Leu His Ala
65 70 75 80

Phe Asp Gln Gln Leu Asp Leu Asp Val Pro Pro Asp Ser Ser Phe Leu
85 90 95

Ala Pro Gly Phe Thr Leu Gln Asn Val Gly Arg Lys Ser Gly Ser Asp
100 105 110

Thr Pro Leu Pro Glu Thr Asp Leu Ala His Cys Phe Tyr Ser Gly Thr
115 120 125

Val Asn Gly Asp Pro Ser Ser Ala Ala Ala Leu Ser Leu Cys Glu Gly
130 135 140

Val Arg Gly Ala Phe Tyr Leu Leu Gly Glu Ala Tyr Phe Ile Gln Pro
145 150 155 160

Leu Pro Ala Ala Ser Glu Arg Leu Ala Thr Ala Ala Pro Gly Glu Lys

175

His Glu Leu Gly His Val Phe Asn Met Pro His Asp Asp Ala Lys Gln
405 410 415

Cys Ala Ser Leu Asn Gly Val Asn Gln Asp Ser His Met Met Ala Ser
420 425 430

Met Leu Ser Asn Leu Asp His Ser Gln Pro Trp Ser Pro Cys Ser Gly
435 440 445

Tyr Met Ile Thr Ser Phe Leu Asp Asn Gly His Gly Glu Cys Leu Met
450 455 460

Asp Lys Pro Gln Asn Pro Ile Gln Leu Pro Gly Asp Leu Pro Gly Thr
465 470 475 480

Ser Tyr Asp Ala Asn Arg Gln Cys Gln Phe Thr Phe Gly Glu Asp Ser
485 490 495

Lys His Cys Pro Asp Ala Ala Ser Thr Cys Ser Thr Leu Trp Cys Thr
500 505 510

Gly Thr Ser Gly Gly Val Leu Val Cys Gln Thr Lys His Phe Pro Trp
515 520 525

Ala Asp Gly Thr Ser Cys Gly Glu Gly Lys Trp Cys Ile Asn Gly Lys
530 535 540

Cys Val Asn Lys Asn His Arg Lys His Phe Asp Thr Pro Phe His Gly
545 550 555 560

Ser Trp Gly Met Trp Gly Pro Trp Gly Asp Cys Ser Arg Thr Cys Gly
565 570 575

Gly Gly Val Gln Tyr Thr Met Arg Glu Cys Asp Asn Pro Val Pro Lys
580 585 590

Asn Gly Gly Lys Tyr Cys Glu Gly Lys Arg Val Arg Tyr Arg Ser Cys
595 600 605

Asn Leu Glu Asp Cys Pro Asp Asn Asn Gly Lys Thr Phe Arg Glu Glu
610 615 620

Gln Cys Glu Ala His Asn Glu Phe Ser Lys Ala Ser Phe Gly Ser Gly
625 630 635 640

Pro Ala Val Glu Trp Ile Pro Lys Tyr Ala Gly Val Ser Pro Lys Asp
645 650 655

Arg Cys Lys Leu Ile Cys Gln Ala Lys Gly Ile Gly Tyr Phe Phe Val
660 665 670

Leu Gln Pro Lys Val Val Asp Gly Thr Pro Cys Ser Pro Asp Ser Thr
675 680 685

Ser Val Cys Val Gln Gly Gln Cys Val Lys Ala Gly Cys Asp Arg Ile
690 695 700

Ile Asp Ser Lys Lys Lys Phe Asp Lys Cys Gly Val Cys Gly Gly Asn
705 710 715 720

Gly Ser Thr Cys Lys Lys Ile Ser Gly Ser Val Thr Ser Ala Lys Pro
725 730 735

Gly Tyr His Asp Ile Ile Thr Ile Pro Thr Gly Ala Thr Asn Ile Glu
740 745 750

Val Lys Gln Arg Asn Gln Arg Gly Ser Arg Asn Asn Gly Ser Phe Leu
755 760 765

Ala Ile Lys Ala Ala Asp Gly Thr Tyr Ile Leu Asn Gly Asp Tyr Thr
770 775 780

Leu Ser Thr Leu Glu Gln Asp Ile Met Tyr Lys Gly Val Val Leu Arg
785 790 795 800

Tyr Ser Gly Ser Ser Ala Ala Leu Glu Arg Ile Arg Ser Phe Ser Pro
805 810 815

Leu Lys Glu Pro Leu Thr Ile Gln Val Leu Thr Val Gly Asn Ala Leu
820 825 830

Arg Pro Lys Ile Lys Tyr Thr Tyr Phe Val Lys Lys Lys Lys Glu Ser
835 840 845

Phe Asn Ala Ile Pro Thr Phe Ser Ala Trp Val Ile Glu Glu Trp Gly
850 855 860

Glu Cys Ser Lys Ser Cys Glu Leu Gly Trp Gln Arg Arg Leu Val Glu
865 870 875 880

Cys Arg Asp Ile Asn Gly Gln Pro Ala Ser Glu Cys Ala Lys Glu Val
885 890 895

Lys Pro Ala Ser Thr Arg Pro Cys Ala Asp His Pro Cys Pro Gln Trp
900 905 910

Gln Leu Gly Glu Trp Ser Ser Cys Ser Lys Thr Cys Gly Lys Gly Tyr

925

Cys Thr Met Ala Glu Cys Ser
965